November/December 2014
Volume 30 Issue 6

P&SN

POLICE AND SECURITY NEWS

The Information Source for Law Enforcement and Homeland Security

The Tactical Uses of "Drones"

Responding to Active Shooter Events

What Are the Five Phrases You Should Avoid?

New Police Vehicles and Equipment for 2015

DAVS Communications, Inc.
1690 Quarry Rd., P.O. Box 330
Kulpsville, PA 19443
Change Service Requested

PRSRT STD
U. S. Postage Paid
Permit No. 1239
Bellmawr, NJ 08099

ANY MISSION. ANY DAY.
ORIGINAL S.W.A.T.®
Whether you serve your country or community, Original Footwear stands behind every boot we make. Our unwavering objective is to design, develop, produce, and deliver the most reliable military and law enforcement footwear available.
Battle-ready since 1969.
ALTAMA®
Visit us at SHOT Show, Booths 20149 and 31003

Circle 6000 for More Information

P&SN Police and Security News

Serving Law Enforcement & Homeland Security

Important Announcement to Our Much Valued Readers

Beginning with the January/February 2015 edition, *Police and Security News* (*P&SN*) is making several changes to remain timely and beneficial to our readership by transitioning from its current oversized format to a traditional magazine size (8.5" x 11"). Changes to the longtime tab-sized periodical include:

- **Resize to Magazine** – As *P&SN* moves forward, the new "streamlined" size is part of a transformation to increase its appeal to new readers and broaden its reach through multiple platforms.
- **Logo** – As seen above, the new logo will be part of a new brand identity which furthers the new format's unique value to the law enforcement community.
- **Web Site** – The soon-to-be redesigned Web site will incorporate the look and feel of the new magazine and include new and updated content and features.

"Although we have a new size and look, the same great editorial content will still be featured – those writers and columns which our readers have come to know and trust over the past 30+ years," said Al Menear, Associate Publisher. "We're simply creating a better tomorrow for our readership – today."

About *Police and Security News*

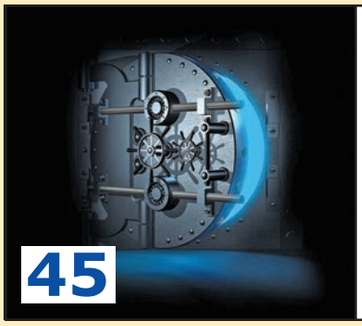
For the past 30 years, *Police and Security News* has edited for the expert in a manner that the nonexpert can understand. Each issue provides in-depth articles by industry known writers; current news and information; useful tips and guidelines; and the latest innovations which relate to law enforcement at all government levels – municipal/city, county, state, and federal, including Homeland Security.

KSG COMPACT SHOTGUN 12GA TWIN 7-SHOT MAGAZINES
KelTecWeapons.com
KEL TEC
LAUNCH A FULL POUND OF LEAD
WITHOUT STOPPING TO RELOAD

Circle 6001 for More Information

Contents

November/ December 2014



EDITORIAL FOCUS:
S.W.A.T./Tactical Operations

38 Responding to Active Shooter Events
Bill Siuru, Ph.D., PE
A new study aims to provide law enforcement professionals with information which will help to better prepare for, and respond to, these types of incidents.

41 The Tactical Uses of "Drones" in Law Enforcement
Rebecca Kanable
What's a UAS? Is a drone a UAS? Can a UAS be used in law enforcement? What are the legalities? Unmanned Aerial Systems (UASs) raise many questions.

FEATURE

45 Why the "Perfect Heist" Succeeds
Bill Siuru, Ph.D., PE
A new study of high value heists explores the meticulousness and audacity employed by criminals from around the world.

SPECIAL REPORT

21 Transportation 2015
Sgt. James G. Post
P&SN presents its 17th annual report on the latest technical advances in police vehicles, components and accessories.

COLUMNS

7 FOCUS ON TECHNOLOGY
8 ...AND NOTHING BUT THE TRUTH.
10 JUST ASK MIKE...
13 PRODUCT HIGHLIGHT
14 TACTICAL TRAINING TIPS & TOOLS
18 ABOVE AND BEYOND...
21 THE WHEELS OF JUSTICE
48 IN SEARCH OF INTELLIGENT LIFE
49 NEW TECHNOLOGY

P&SN POLICE AND SECURITY NEWS

PUBLISHER: David A. Yaw
ASSOCIATE PUBLISHER: Al Menear
MANAGING EDITOR: James Devery
TECHNOLOGY EDITOR: Bill Siuru
ARTWORK & DESIGN: BCD Company
GENERAL MANAGER: Cindie Bonsall
CIRCULATION MANAGER: Bill Zadlo

ADVERTISING:
Al Menear
Toni Saturno

POLICE and SECURITY NEWS
1208 Juniper Street
Quakertown, PA 18951-1520

Phone:
(215) 538-1240
Fax:
(215) 538-1208
E-mail:
info@policeandsecuritynews.com

POLICE and SECURITY NEWS is published bimonthly by DAYS Communications, Inc. with corporate offices at 1690 Quarry Road, Kulpsville, PA 19443 and sales offices at 1208 Juniper Street, Quakertown, PA 18951-1520.

Published photos and written material are the property of DAYS Communications, Inc. and may not be reproduced without permission from the publisher.

Opinions expressed in cartoons and editorial in POLICE and SECURITY NEWS are those of the author and do not necessarily represent the management or ownership of DAYS Communications, Inc.

Standard Rate Postage Paid at Bellmawr, NJ (permit #1239).

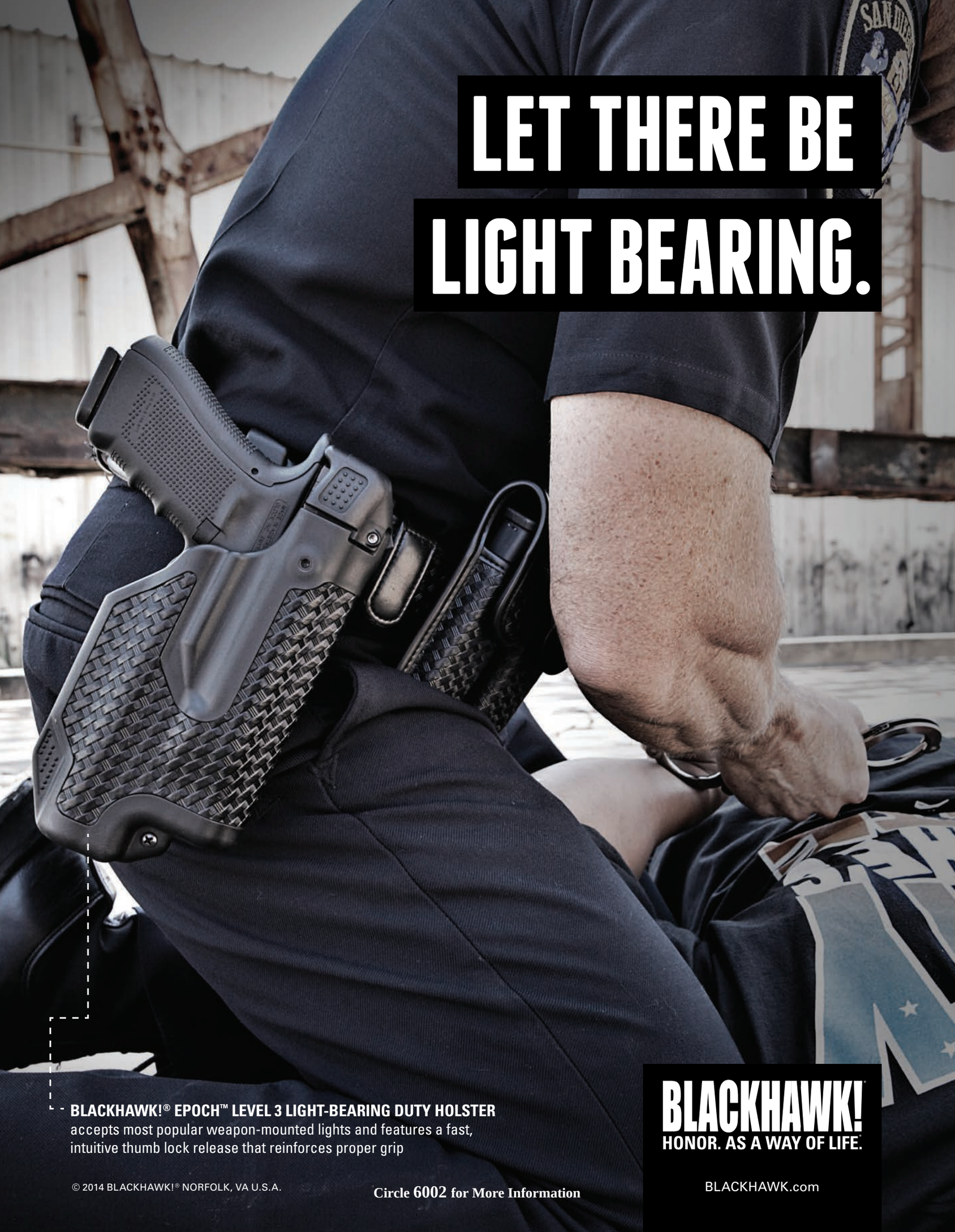
POSTMASTER: Please send form #3579 to DAYS Communications, Inc., P.O. Box 330, Kulpsville, PA 19443.

All subscriptions and editorial should be directed to: DAYS Communications, Inc., P.O. Box 330, Kulpsville, PA 19443.

DAYS Communications, Inc. does not assume and hereby disavows any liability to any person for any loss or damage caused by errors or omissions in the information contained herein, regardless of any cause whatsoever.

POLICE and SECURITY NEWS is edited to provide accurate and reliable information in relation to the subject matter it covers. POLICE and SECURITY NEWS is distributed with the understanding that its publisher and employees of DAYS Communications, Inc. are not engaged in rendering professional advice in absolute terms. It is strongly recommended that expert assistance be utilized whenever such advice or information is required.

BPA WORLDWIDE℠



BLACKHAWK!® EPOCH™ LEVEL 3 LIGHT-BEARING DUTY HOLSTER
accepts most popular weapon-mounted lights and features a fast, intuitive thumb lock release that reinforces proper grip

BLACKHAWK!
HONOR. AS A WAY OF LIFE.

BLACKHAWK.com

© 2014 BLACKHAWK!® NORFOLK, VA U.S.A.

Circle 6002 for More Information

SHOT·SHOW

SECURE THE BEST DEFENSE

JANUARY 20–23, 2015

SANDS EXPO CENTER | LAS VEGAS, NEVADA

The SHOT Show provides a one-of-a-kind opportunity to experience the best in firearms, ammunition, safety and tactical gear for law enforcement. Discuss in-field challenges, get hands-on with the latest equipment, and find real-world solutions to reinforce safety and effectiveness among your department or unit. Plus, participate in **FREE** training from SHOT Show's Law Enforcement Education Program.

More than 65,000 attendees. The largest dedicated exhibit for law enforcement agencies. FREE training.

TOO GOOD TO MISS
APPLY TODAY
SHOTSHOW.ORG/PSN

OWNED BY: National SHOOTING SPORTS Foundation — PROMOTE • PROTECT • PRESERVE

IN PARTNERSHIP WITH: LAW OFFICER — TACTICS | TECHNOLOGY | TRAINING

The SHOT Show is a trade-only event. Proof of professional affiliation required.

Promo Code: PA15PS

Circle 6004 for More Information

Focus On Technology

Less-Lethal Technology

Conducted Energy Weapon

The **PhaZZer® Enforcer Conducted Energy Weapon (CEW)**, from Phazzer Electronics, Inc., is a less-lethal law enforcement weapon which provides a similar effective takedown power as any Electronic Control Device (ECD) on the market. The **Enforcer CEW** features an enhanced safety circuit, simplicity of use, comfort, effectiveness, reliability, and consistency.

The **PhaZZer Enforcer** features a "safety shut down circuit technology" which automatically shuts the CEW down at the end of the third, five second trigger application or when aggregate exposure to the body exceeds 15 seconds.

The **Enforcer CEW** contains a rechargeable and replaceable 7.2 volt lithium ion battery system which allows for approximately 3000, five second electric shock deployments during its lifespan.

Along with dart ammunition cartridges, Phazzer offers other nonlethal ammunition alternatives, such as Pepper Ball Cartridges, Rubber Ball Cartridges, and more.

Circle 6005 for More Information

Omni-Stream™ OC Aerosol Units

Utilizing barrier separation between the liquid and compressed air, the **Omni-Stream**, from Combined Tactical Systems, delivers an efficient stream at any angle. Unlike the traditional OC products which must be held upright, the **Omni-Stream** can be sprayed reliably from any orientation – even upside down. The **Omni-Stream** is available in OC MK-3, MK-4 and MK-9 sizes. The MK-9 unit incorporates a newly designed slim line "Ballistic" handle and spray nozzle, producing tighter spray patterns, positive actuation with audible feedback, and a clearly marked safety mechanism.

Circle 6006 for More Information

New Baton

Monadnock® announced that it has released the new **AutoLock® X3™** baton. This newest series of positive locking batons includes an updated cam and stainless steel ball bearing, providing a reliably consistent locking action and a solid feel in the hand when deployed. It features a new smooth plastic nose on the baton handle for more efficient holstering and transitioning from the holster to the hand. The **AutoLock X3** baton is equipped with a new blackened electroless nickel finish which improves corrosion resistance on both the inside and outside of the baton. Available with a variety of options, these models can be purchased with either a smooth foam or fluted Super Grip® handle which offers excellent tear strength, and a choice of the Safety Tip®, 3XT Tactical Targeting Tip, or the *Power* Safety Tip®.

Circle 6007 for More Information

More Options to the VENOM® Line

Combined Systems recently expanded its VENOM Non-Lethal Tube Launched Munitions System product line. The patent pending **VENOM MC** can launch 37mm, 40mm and 66mm nonlethal munitions from one launching system with ease. By simply switching the launching cassette, the remote operated system delivers a variety of calibers and payloads from the same launching platform.

The **VENOM V-TAC** is a tactical version of the traditional VENOM launching system. With just one bank of ten 37mm munitions, this compact launcher can easily be mounted onto vehicles which are limited in terms of mounting space, such as ATVs and pickup truck hitches.

Circle 6008 for More Information

Circle 6009 for More Information

Ramesh Nyberg

LOBSTER-IFFIC!

Unless you live in Alaska, Michigan or Florida, your state is not surrounded by water on all but one side. (Boy, am I going to hear about this if I got that wrong.)

The Spanish came up with the name Florida which apparently means something close to "land of the flowers." I suppose we have some nice flowers here, but they should have named it *AyCarajoAgua* which means something close to "Holy crap, there's water everywhere in this place!" Heck, we even have water *inside* the state in the form of the Everglades and, if that weren't enough, a big circular lake smack in the middle of the peninsula called Lake Okeechobee which, in Seminole, means something close to "So, you thought you were done with the water?"

The point, me hearties, is this: Water, and its accompanying wildlife, is a big law enforcement issue here. That's mainly because fishing – both recreational and commercial – is a gigantic industry. Our weather allows for fishing year-round, whether you want fresh or salt, inside or outside, rivers, lakes, oceans, bays – you name it. Because of this, we have laws and regulations which would fill your boat to the gunwales and law enforcement agencies of all sorts to enforce them. We'll start with the smaller jurisdictions. Imagine this: Thirty-three of Florida's 67 counties make up the shorelines of either the Atlantic Ocean or the Gulf of Mexico. That's 33 sheriff's offices which have their own marine patrol units. Then, there's the state agency, the Florida Marine Patrol (whom we lovingly call the "Grouper Troopers"). They handle boating accidents and violations of law in saltwater. Our freshwater state law enforcement agency is the Fish and Wildlife Commission (FWC). Where I live, there is Biscayne National Park which is the largest underwater park in North America. And, yes, the National Park Service Rangers' (the "Mullet Marshals") patrol boats have a presence in park waters.

Here's where it gets really interesting. We have a lobster season here and it's pretty serious stuff. Now, understand first that this lobster I speak of is the West Indies spiny lobster (also known as "crawfish"), not your Maine lobster with the big claws. Lobster season starts August 6th and ends March 31st, so, yes, as you read this, there are hundreds of possessed boaters out there snorkeling and diving to get their limit which is six lobsters per person per day or 24 per boat – whichever is greater. The start of lobster season is such a maniacally dangerous affair on the boat ramps and on the water that the state decided a few years ago to insert a two day Sport Season – nicknamed "mini lobster season" – which always starts on a Wednesday to relieve the massive crush at the marinas when the regular season opens. The law says you have to take the lobsters whole out of the water and you cannot remove the tails until you reach land. This is so that law enforcement can measure the lobsters when they stop you and there is a decent chance you will get stopped and checked, especially if you are in National Park waters. The lobster's carapace (the main body between the head and the tail) must measure three inches or greater, or you've taken a short lobster, and you can be fined for each one you take.

There are certain no-fish zones which exist now year-round and others which are seasonal and you need a calendar, and probably a few apps, to keep up with it all. We have beautiful John Pennekamp State Park, which is mostly coral reefs, where the snorkeling and diving is fabulous, but you can't take lobster out of there at any time. The state just designated part of Pennekamp as a no-fish zone. The problem is that, when you're out there on the water, there aren't any dotted lines to show you the boundaries.

"Aw' c'mon," you're saying, "just how serious can they take all this lobster stuff?" Ask Javiel Vergel and his buddy, Eriel Casana. They were arrested by the FWC for taking lobster out of season and, when the officers searched the boat, they found that about half of their nearly *five hundred* tails were short. They faced multiple felony – yes, felony – charges for their illegal haul. I've been in court and have seen cases being called, with the Florida Marine Patrol or FWC guys sitting there in the courtroom with coolers crisscrossed with evidence tape, full of lobster on ice. This year, a guy was nailed pulling lobster traps (these are used by commercial lobster fishermen) and yanking tails off the caught lobsters. In all, he had 267 tails, 246 of which were short. The judge held him on a $1.4 million bond. You and I have seen murder cases with smaller bond amounts than that.

So, don't mess with our lobster – and that goes for our stone crabs, snook, redfish and queen conch, too. Stone crabs have their own season, bag limits and so on, as do many game fish like grouper, snapper and redfish, which were almost fished into extinction in the 1970s before legislated bag and size limits saved them. Now, you can only take one redfish per fisherman in the south region and it has to be between 18 and 27 inches in length. You can only take one snook and that one has to fit the four inch regulation – between 28 and 32 inches – and you can't take any in January, June, July or August. Trust me when I tell you that they are hard enough to catch as it is.

You cannot take queen conch at all in Florida waters. You know all that conch chowder and conch fritters you love to eat when you're down in the Florida Keys? Most, if not all, of it is from Aruba and Curacao and other parts of the Caribbean where it's legal to harvest.

Just how do you patrol millions of acres of water to search for poachers? I don't know, but our local aqua cops are darn good at it. They're highly adept at finding *me*, that's for sure. One sunny first day of lobster season about 15 years ago, I went out with my family and my lobster gear. I found a spot which was shallow enough to snorkel, anchored up and went over the side to scope it out. Bingo! I saw a bunch of holes with thick, spiny feelers waving out of them. I grabbed two big crawfish and worked my way to the boat where it was shallow enough to stand. "Found the mother lode!"

I yelled to the kids, whose eyes widened. "Open up the cooler!"

Just then, I heard a voice on a loudspeaker say, "Don't put those in the boat!" I looked over and saw the gray hull of a Florida Marine Patrol boat. Two officers were standing on the side. "You're in Pennekamp!" one of them called out to me. They seemed to have come out of nowhere.

I pulled my mask up. "*This* is part of Pennekamp??" I replied.

"Yep," he grinned. "People make the mistake all the time. This is the northeastern corner of the park. Gotta put those back."

I looked at the lobsters who no doubt were smirking in their own lobster way. *They* knew where the dotted lines of the Pennekamp boundary were. Sadly, I dropped the evening's delectable dinner back in the drink where they scurried back to their holes. I'm sure they snickered to their brethrens about yet another human diver who doesn't know the park boundaries and they all probably prayed to the Grouper Trooper gods who protected them.

"Be careful," the Grouper Trooper called out as they waved and roared off in search of their next boater.

And that – safety – really is the main issue of the day during our lobster season, far eclipsing whether a carapace is three inches, or not. Every year, there is at least one death on the water and it's almost always a snorkeler getting mauled by the propeller of some rabid boater in search of the same spiny creatures we covet – probably way too much – here in the land of illegal seafood.

About the Author: Ramesh Nyberg retired from law enforcement in November 2006. He spent 27 years in police work in South Florida, 22 of those years in homicide as an investigator. He has taught homicide investigations and interview/interrogations at the local police academy. He now teaches criminal justice classes at a high school in the Miami area. His students frequently read the copies of Police and Security News *he brings to the classroom. Mr. Nyberg enjoys hearing from readers and he may be contacted at ramesh.nyberg@gmail.com.*

Smith & Wesson® M&P SHIELD™

Grip Extension

This Product Replaces The Magazine Floor Plate Providing Additional Grip Length For Better Control And Comfort

Suggested Retail $9.95

See Your Local Dealer Or Contact

PEARCE GRIP

Specializing in Replacement Grips for Firearms

P.O. Box 40367
Fort Worth, Texas 76140
(800) 390-9420 (817) 568-9707 fax
http://www.pearcegrip.com

Ask For Product # PG-MPS

Circle 6011 for More Information

NEWS

Colorado Judicial Branch Releases Shooting After Action Report

A breakdown in police and fire communication resulted in a chaotic response to treating victims of the Aurora theater 2012 shooting, according to an after action report for the City of Aurora, Colorado.

The *Denver Post* wrote a story about the report submitted by TriData Division, System Planning Corporation and released by the Colorado Judicial Branch.

To download a copy of this report, visit **http://tinyurl.com/mfnvvr5**.

THE SCARIEST LINEUP YOU'LL EVER SEE.

Brenneke® makes a shotgun slug perfect for any situation you'll ever encounter—from crowded city streets to vehicle-borne terrorist threats. They will put an end to any fight—right here, right now.

ORIGINAL BRENNEKE USA

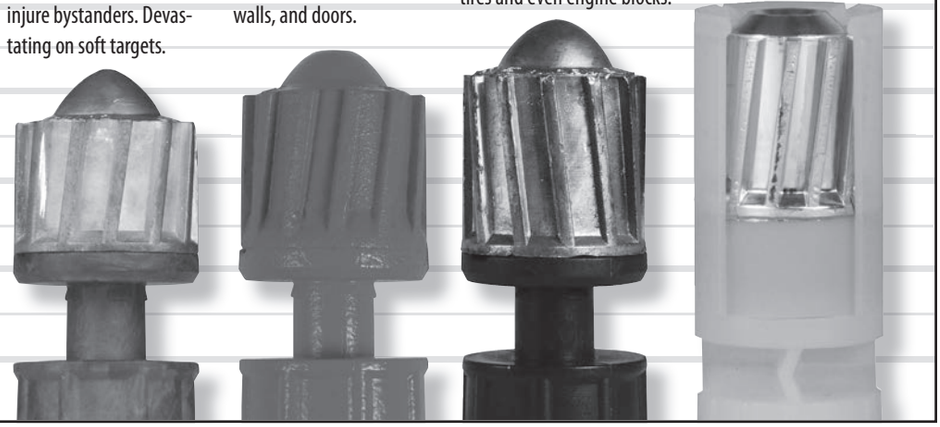
800.753.9733
www.brennekeusa.com
info@brennekeusa.com

Tactical Home Defense™ 12 ga & 20 ga
Maximum energy transfer on contact without excessive penetration that can injure bystanders. Devastating on soft targets.

Special Forces Short Magnum™ 12 ga
Over 30% greater penetration than competitive slugs. Easily penetrates steel, glass, walls, and doors.

Special Forces Maximum Barrier Penetration Magnum™ 12 ga
The ultimate urban slug. Extra-hard alloy penetrates windshields, wheel rims, tires and even engine blocks.

TKO™ (Tin Knockout) 12 ga Lead-Free
The world's first lead-free sabot with power approaching lead. Food-safe tin that generates over 2000 fps and 2607 ft-lbs of energy.



Circle 6010 for More Information

Michael Carpenter

FIVE PHRASES YOU SHOULD AVOID

Let's touch on one aspect of dealing with subordinates which can cause problems for bosses, but can easily be avoided.

As a police officer, whether lecturing at a police academy; speaking to a group of students from the local elementary school; trying to talk a combative drunk into "playing nice"; or addressing command level officers at an oral board, I realized early on the value of effective communication skills. I also realized that, if I wanted to be an effective supervisor or manager, good communication skills involve more than just yelling at subordinates and giving orders.

Of course, there are many, many books written on the topic of good communication skills and people can study this topic for a lifetime. I realize that this column is not the place to go into all of the subtleties and nuances of effective communication skills for supervisors and managers.

However, picture this scenario: A young child in the third grade comes home from school with a drawing he (or she) made for his (or her) parents and the child wants the parents to share his (or her) happiness and hang it on the refrigerator for all to admire. How do you think the child feels when the parent says, "I'm kind of busy right now," or "I'll look at it in a little while," or "We've never put anything on the refrigerator door before, so we're not going to start doing it now." Well, the little child would get frustrated, quickly lose his (or her) motivation and excitement and may not want to draw any more pictures. Children respond to both the nonverbal actions of the parents and the words the parents choose to use. So, how does this apply to effective supervisory communication skills?

I've made the statement many times over the years that raising children, training dogs and supervising employees have a LOT in common. The emphasis for modern day police supervisors and managers should be on team building, customer service and problem solving, with a generally positive attitude towards their subordinates. When the time comes when one of the officers on your shift asks you a question, comes up with an idea on how to do something better or wants some additional information about a decision which was made, there are a few certain phrases which a modern police commander – at any level – should never utter. Yet, unfortunately, we have probably heard them all during our careers.

But, if you hear yourself uttering any of the following phrases, take a reality check in trying to deal with the Generation Y employees or Millennials on your shift. (If you are a supervisor or manager and don't understand these last two phrases, I bet you are having problems dealing with some of your subordinates. You really need to work on bringing your supervisory style into the 21st century! One author claims that, if a boss asks a Generation X employee to jump, the employee jumps and then asks, "Was that high enough?" But, if a boss asks a Generation Y or Millennial employee to jump, the employee is more likely to ask, "Why?" [1])

1. "We can't do that." This response often comes from an insecure boss when he hears an idea or suggestion from a subordinate whom the boss doesn't like. Unfortunately, some bosses don't like to deal with change because they don't know how to deal with change. Or, an insecure boss may try to discourage creative thought from subordinates because a good idea which works may make the insecure boss look bad.

Whenever you hear that phrase, you should say to yourself, "Why not?" Modern day police commanders should be open to new ideas, new procedures and the innovative thinking of the people in their command. It may turn out that a new idea doesn't work out, but at least you should realistically evaluate it and consider it before rejecting it. If the idea is rejected, you owe it to the employee to explain the rationale behind the decision, but only if you want to continue to have motivated and creative thinking employees.

2. "This is the way we've always done it." Similar to #1 above, this phrase is often uttered by the "dinosaur class" of police managers. It is a dismissive way of blocking new ideas, new programs, new training, new anything! Policing does not have to worry about profit and loss or return on investment like the private sector does, but that doesn't mean that we have to keep doing the "same ol' " just because that's the way we've always done it!

Policing, as a social service, should be continually changing to meet the needs of the community they serve. Change is inevitable and it should be welcomed by progressive police managers and supervisors. Private industry thrives on change and new ideas. Where would we be without improvements to existing products or new products being developed? Some businesses go out of business when they keep doing the "same ol' " for too long. Yet, somehow, some police managers desperately hang on to the past.

3. "I don't know." This is another example of a dismissive response designed to stop further conversation. Bosses aren't supposed to know all the answers all of the time, but when an employee asks a question which stumps you, that just means you have to do research until you find out the answer to a customer's or an employee's question.

Therefore, you should always add to "I don't know right now," with "but I'll do my best to find out and get back to you as soon as possible."

[1] Asghar, Rob. "Gen X is from Mars, Gen Y is from Venus: A Primer on How to Motivate a Millennial", *Forbes Magazine*, Jan, 14, 2014.

Regardless of whether the question is about a payroll issue from a subordinate or a legal question from a citizen, you have an obligation to find the answer for them.

Yes, you are busy, but the more questions you research early in your career, the more answers you will have later in your career. You will also develop the reputation of being dependable and reliable.

4. "Let me get back to you on that." Closely connected to #3, this is the canned response given by someone who either doesn't want to, or is incapable of, making a decision. The boss will often appear to be busy as he ponders a subordinate's question or inquiry, then rustle a few papers on his desk or look at his watch like he is expecting an important phone call or visitor and, then, as he avoids eye contact or quickly turns around, dismisses the subordinate with the conversation ending phrase, "Let me get back to you on that." Whenever someone hears this phrase, they become wary. Be sure that you follow up.

5. "No!" There are times when you just can't accommodate someone's request, but the phrase, "No," without some explanation or effort to resolve the problem is generally a poor way to end a request from a subordinate. Effective police supervisors are generally in a position to make things happen and can find ways to make exceptions to general rules. Effective bosses are "enablers," not

M.S. in Legal Studies:
Criminal Justice
Homeland Security
Law and Public Policy

100% ONLINE DEGREE

California University of Pennsylvania is a 162-year-old, regionally accredited state university near Pittsburgh, Pa. This 100% online program provides graduate education with a student-centered approach. The program focuses on legal issues, critical thinking and policy analysis related to the student's chosen area of concentration: Criminal Justice, Homeland Security or Law and Public Policy. Instructors in the program have extensive practical experience in the subjects they teach.

To learn more about the 100% online M.S. in Legal Studies and other unique online opportunities, visit **www.calu.edu/golegalstudies** or call 724-938-4710.

CALIFORNIA UNIVERSITY OF PENNSYLVANIA
Your Education Partner for Life
www.calu.edu/go
A proud member of the Pennsylvania State System of Higher Education.

CALU
GLOBAL ONLINE

Circle **6015** for More Information

DriveTimes™ Infrastructure-Free Time to Destination with Dynamic Routing

DriveTimes™ combines traffic data from TomTom with All Traffic's connected product platform, radically reducing the complexity and cost to deploy and maintain an advanced, dynamic message system.

Turnkey Solution

- Hosted product platform includes connectivity.
- Live in-flow traffic data updated as often as every minute.
- No custom integration or IT support required.
- Web application accessible from anywhere.

- Simply mount a variable message sign.
- Configure a route on a web-based interface.
- Display a time to destination message with no infrastructure other than the message sign.

ALL TRAFFIC SOLUTIONS™

Route Flexibility

- Point & click route configuration eliminates reliance on roadside sensor infrastructure.
- Routes and times are a message component or logic input.
- Dynamically display "Time to Destination", delay or recommend alternate routes.
- Routes can be permanent or temporary.

Live Traffic Data Use Cases

- Display live conditions at points of traffic origin such as garages & hotel lobbies.
- Display time to next Service or Rest Area; time is more meaningful than distance.
- Dynamically recommend best exits or routes to specific destinations based on thresholds.
- Use short duration routes for emergencies.
- Interject high priority driver feedback when individual excessive speeds are detected.

866-366-6602 | alltrafficsolutions.com

Circle **6014** for More Information

New Device in the Works to Catch Texting Drivers

A Virginia company is developing a radar gun-like device which would help police catch drivers as they text, reports *The Virginian-Pilot.*

The technology works by detecting the telltale radio frequencies which emit from a vehicle when someone inside is using a cell phone, Malcolm McIntyre of ComSonics told the newspaper. Cable repairmen use similar means to find where a cable is damaged – from a rodent, for instance – by looking for frequencies leaking in a transmission. A text message, phone call and data transfer emit different frequencies which can be distinguished by the device ComSonics is developing. That would prove particularly useful for law enforcement in states such as Virginia, where texting behind the wheel is banned, but talking on the phone is legal for adult drivers.

For more information on ComSonics, visit **www.comsonics.com**.

"naysayers." Subordinates can appreciate the fact that they can't always get what they want, but the bad tasting medicine goes down a little easier mixed with some honey.

If you must turn down the request of a citizen, subordinate, peer or boss, do it diplomatically after exploring any and all possible alternatives. Try to relate to them in softer terms such as, "I can't do that because..." or some other similar phrase. It will work much better with today's public, as well as with your officers.

Most effective communicators – whether a line officer, supervisor or chief – know that these "forbidden phrases" are only a symptom of a greater problem. The problem, of course, starts with the people who use such phrases. These types of bosses are usually "Theory X" types who are insecure and ineffective in their job. A police professional whom I know categorizes these types as bosses who worry about rearranging the deck chairs after the Titanic hits the iceberg. Only police managers with a negative attitude use these kinds of phrases.

Modern day police supervisors who have a progressive "can-do" attitude will just naturally never use these phrases. Instead, they use phrases such as, "We can look at that," "We'll work it out," "I like that idea. Let's work on it," and "I'll have the answer for you within 48 hours."

If you ever hear yourself mumbling any of the five phrases listed in this column, it may be time for an attitude check.

About the Author: Mike Carpenter has been on the police side of criminal justice for more than 25 years. He started out as a city cop and then went to a state police agency (trooper, detective and patrol sergeant). After that, he worked for the New York State Police Division of Criminal Justice as a police training specialist.

Currently, he teaches criminal justice courses at a college in upstate New York. He has two master's degrees; has been a certified police trainer for more than 20 years; has written numerous articles; and operates a police management consulting business (www.policemanagement.com).

Circle 6017 for More Information

Product Highlight

On and Off Duty Holsters

DESANTIS GUNHIDE®

The **Dual Carry II** holster is now available for the Ruger® LCP® with a Crimson Trace LG-431 Laserguard® and the Kel-Tec P-3AT with a Crimson Trace LG-430 Laserguard. It features the Tuck-able 360° "C" clip for unlimited positioning adjustment in the IWB mode. It's made of soft nonmolded leather with a thumb break and an integral belt loop for OWB carry. An optional "J" clip is available at an extra cost.

Circle 6018 for More Information

FOBUS HOLSTERS

The **GL42ND** is the newest holster for the GLOCK® 42. The one-piece holster body is constructed with reinforced polymer and is lightweight and extremely rugged. Retention is adjustable using the tension adjustment screws to allow the user to select preferred presentation with security. The paddle insert is rubberized for comfort and stability. The steel rivet attachment system on the paddle and holster body are reinforced for added durability and strength. The **GL42ND** comes with the Fobus paddle or the Fobus Belt Holder which allows the holster to ride high and keep a low profile.

Circle 6019 for More Information

GOULD & GOODRICH INC.

The **Model B812 Inside, Outside Pants Holster**, which can be worn inside the waistband using two standard IWB belt loops, now also fits the Smith & Wesson® M&P Shield™; the S&W CS45; the Ruger® SR9c®; and the SCCY CPX-1 and CPX-2, and is available only in black.

Two new sizes have been added for the **897/B897 Belt Slide Tension Holster**. Size R51 fits the Remington® R51, SIG SAUER® P938 and the Smith & Wesson BODYGUARD® 380, while Size 3 fits the GLOCK® G29 and G30 and the Springfield® XD-S®. Both fit snugly against the body for ultimate concealment; are available in right- or left-hand styles, and fit belts up to 1 1/2".

Circle 6020 for More Information

DESANTIS GUNHIDE®

Three holster fits for the SIG SAUER® P227R are now available. With the **Thumb Break Scabbard®**, the firearm rides high and is presented at an optimum draw angle. Its thumb break and exact molding, together with a tension device, allow for a secure and highly concealable carry. The **Speed Scabbard®** is designed to meet the needs of plainclothes professionals preferring a holster without a thumb break while still providing firearm retention. The **Cozy Partner®** holster offers superb weapon retention due to its precision molding and custom tension device. A specially crafted memory band, which perfectly retains the holster's shape, makes one-handed reholstering easy.

Circle 6021 for More Information

N8² TACTICAL INC.

Nate Squared Tactical recently added a **holster for the GLOCK® 42** to their Professional Series line of concealed carry holsters. Combining the slim line subcompact GLOCK; the comfortable concealment of the holster; and the patented positive retention Twist Release System, you have the ability to carry all day, every day with the ultimate in comfort.

Circle 6022 for More Information

SAFARILAND®

The **GLS™ (Grip Locking System)** series of holsters feature a patent pending retention device which securely holds the firearm in place once holstered. This innovative retention mechanism is quickly and intuitively deactivated with the middle finger during the draw. Holsters with the **GLS** retention device provide weapon security with a very low profile and ride close to the body, making them ideal for concealment.

Circle 6023 for More Information

CROSSBREED® HOLSTERS

The **SuperTuck®** continues to be one of CrossBreed Holsters' most popular IWB holsters. It is adjustable for ride depth AND cant. CrossBreed's hand molding process ensures a perfect fit and retention each and every time. With its "tuckable" capability, the SuperTuck allows you to conceal comfortably in a pair of shorts with an untucked shirt, as well as a business suit with a dress shirt.

Circle 6024 for More Information

DESANTIS GUNHIDE®

Three holster fits for the Ruger® SR45 are now available. For concealment with comfort, **The Insider®** holster contains design features to minimize bulk. It is made with a heavy-duty spring steel clip positioned high for deep cover. The leather is soft and unmolded. The **Speed Scabbard®** is designed to meet the needs of plainclothes professionals preferring a holster without a thumb break while still providing firearm retention. This is accomplished with precise molding and a tension screw device on most models. With the **Thumb Break Scabbard®**, the firearm rides high and is presented at an optimum draw angle. Its thumb break and exact molding, together with a tension device, allow for a secure and highly concealable carry.

Circle 6025 for More Information

Walt Rauch

THE RUGER® LC9s®

A Single Column, Striker-Fired Pistol in 9x19mm

The Ruger LC9®, chambered in 9x19mm, was introduced in 2011 as Ruger's answer to those who like the Ruger LCP® (chambered in .380ACP), but wanted one with a bit more "oomph." Now, while the LC9 continues to sell well, Ruger has paid attention yet again to another consumer "want." The LC9s is the same pistol, but one which is now striker-fired (thus the "s"), and is not double-action.

Why Striker-fired?

This makes sense in as much as the top selling U.S. handgun – the GLOCK® pistol – is striker-fired, as are others such as the M&P® models from Smith & Wesson® and the P320 from SIG SAUER®. The principal advantage of the striker system is that trigger movement to fire and to reset is much shorter than the double-action trigger pull. Also, it is easier to get a lighter weight pull on the striker system.

Jumping ahead, the measured pull weight of this sample using a Chatillon trigger pull gauge is 5.5 pounds, while the sample LC9 I had previously reviewed had a trigger pull of eight pounds. Both showed relatively smooth movements and neither had the ability to restrike a misfired cartridge with another pull of its trigger. Of the two systems, the lesser movement of the LC9s trigger can be an aid in making good hits because, with less movement of the trigger, all else being equal, you are less likely to pull your sights off the target.

Other Changes

As to visible changes from the LC9 to the LC9s, I noticed three. The external hammer is gone, replaced by a retaining plate. Now, there's a drop safety in the face of the trigger and, since there is no hammer, the third cross pin which retained it in the frame is gone. Lastly, the loaded chamber indicator of the LC9 has been replaced with a loaded chamber "view port" which is a notch cut in the rear of the chamber hood. This port is an inward angled cut in the slide right above the extractor hook which allows you to see a portion of the chambered cartridge. As a side note, the LC9 barrel is used in the LC9s, as can be seen by the notch cut in the rear of the chamber which allowed the loaded chamber indicator of the LC9 to operate.

All controls are on the left side of the frame. The thumb safety is easy to reach, as are the slide stop and magazine release.

Features

In construction, the LC9s follows that of the LC9. It's chambered in 9x19mm, has a 3.12" barrel and weighs 17.20 ounces with an empty magazine. Its capacity is 7+1 rounds; its length is 6.00"; its height is 4.5"; and it has a thickness of .90". The MSRP of the LC9s is $449.

The seven round, single column magazine has a metal body which has six cartridge witness holes on either side, numbered 2 to 7. The follower and removable base plate are made of glass filled nylon. A finger grip extension base plate is also supplied. When I added this plate, I was able to take a full three-finger grip, rather than the 2+ grip I had on the gun with the flat base plate. One magazine and one orange colored inert magazine are supplied. The inert magazine is to be used in disassembly of the pistol (more information on this later).

Sights

The rear sight is windage adjustable in a dovetail cut, with the sight further held in place by an Allen screw in the body of the sight. The wide (1.63") square cut rear sight notch has a white dot on either side. The 1.25" wide front sight has a single dot. The combination allows for coarse and very quick sighting, an obvious plus in a self-defense handgun. Another advantage of such sights is that they are large enough to allow good sighting – even for those with less than optimal vision.

The slide is made of through hardened alloy steel and the barrel is alloy steel; both have blued finishes. Its high performance, glass filled nylon frame is colored black. Two coil springs, one within the other, are noncaptive on a polymer guide rod.

Barrel lockup occurs when the chamber hood abuts into the large ejection port window. A passive firing pin safety is also in the slide. A pivoting external extractor is located at the lower right rear of the port. Eight wide, diagonal grasping grooves occupy almost all of the space on the slide from the rear of the ejection port to the back of the forward angled rear of the slide. The slide is nicely tapered at its muzzle and along its bottom edges.

These inward curves abut matching tapered edges which match up with the upward curving of the frame on its diminutive dustcover. The frame holds a metal insert which contains various operating parts, including the slide rails. The insert is held by two cross pins at the front and rear of the frame.

Present on the left side of the frame is the slide catch, centered above the grip area. The thumb safety, also on the left side, is partially grooved and, when down or "off safe," exposes a red oval on the

Indicated is the loaded chamber "window."

frame showing the pistol can be fired. When up or "on safe," a white oval on the frame is exposed and visible. The safety was easy to use and moved in a positive manner, both on and off safe. The frame stamped LC9s serial number is visible in a countersunk opening at the top of the right grip panel.

The nonambidextrous magazine catch at the lower rear of the good-sized trigger guard is vertically grooved on its face. Forward on the frame is the takedown plate which covers the takedown pin. (These parts are addressed later.)

The slide locks open on an empty magazine and the external slide stop is easy to reach and manipulate for positive firearm functioning. The LC9s has a magazine disconnect which means the pistol cannot be fired unless the magazine is fully seated.

The front strap, backstrap and the lower two thirds of the grip's side panels wear closely spaced "checkering." In the top quarter section, the frame curves inward lengthwise from the trigger guard back to the backstrap. The backstrap is also shaped such that I was able to take a good, high grip without concern of being cut by the recoiling slide. The trigger is hinged,

Arrow Safety Device

Bulletproof Shields and Clipboards

Designed for Law Enforcement: Available to everyone. Hardwire's Bulletproof tactical shields are derived from solutions developed for the Department of Defense. Ultra lightweight shields that meet NIJ Level 3A protection. Lightweight, functional protection available in multiple finishes.

Bulletproof Tactical Shield
20" wide x 24" high
Ultra Lightweight
Comfortable strap, handle and arm pad
Ballistic protection per national Institute of Justice standards in 3 or 3A
Absorbs multiple magazines of ammunition from any handgun or shotgun without rico-chet or injury
Carbon fiber or Camouflage finish (Custom police model shown)
Available in Notch and View port "20x30"

Curved Tactical Shield with Viewport Window & Pro Handles
Large 23 inches x 40 inches in size, Curved shape.
Bulletproof viewport window.
Lightweight 17.5lbs.
Adjustable handle.
Aluminum edging.
Ballistic protection per National Institute of Justice standards in 3 or 3A.
Available in **NIJ level 3A protection.**
Absorbs multiple magazines of ammunition from any handgun or shotgun without ricochet or injury.
Heavy duty polyurea coating.
Optional light kit.

Bulletproof Clipboards
10 inches x 13 inches in size.
Weighs only one pound, side grip available.
Additional layer of protection in the field.
Ballistic protection per National Institute of Justice standard 3A.
Absorbs multiple magazines of ammunition from any handgun or shotgun without rico-chet or injury.
Carbon fiber, Camouflage finish or White-board finish for multi use functionality.

ARROW SAFETY DEVICE COMPANY
PO Box 205, Selbyville, DE 19975
Info@ArrowSafetyDevice.com
(800) 327-2514 Fax: (302) 856-1549

Circle 6027 for More Information

Conceived for Men, but Women Love it Too!

MADE IN THE USA

MINI SCABBARD®

- Premium cowhide
- Detailed molding
- Adjustable tension device

MSRP
$59.99
Style 019

"We didn't invent concealment, we just perfected it!"

De Santis GUNHIDE®

800-GUNHIDE 631-841-6300
431 Bayview Avenue, Amityville, NY 11701

USE PROMO CODE PSN4 FOR FREE SHIPPING!

www.desantisholster.com

Circle 6028 for More Information

The metal body/polymer follower and base plate magazine has six numbered cartridge witness holes on both sides. The orange colored inert magazine is for disassembly. Curved and flat base plates are supplied, as is a red "chamber safety" flag.

smooth-faced and has the drop safety tab centered in its face.

Takedown

To disassemble the LC9s, after insuring the pistol is empty, release the tension on the striker by dry firing. However, the magazine safety prohibits doing so without having the magazine inserted which is contrary to almost all pistol disassembly instructions. To do this safely, Ruger supplies an inert orange dummy magazine to be used in lieu of the magazine proper. (Helpfully, disassembly instructions are imprinted on one side of the dummy magazine.) Also, Ruger offers a video demonstrating the disassembly and reassembly which can be viewed by going to Ruger's Web site (**www.ruger.com**). Find the "News & Resources" section, then "Videos," and then "Ruger Tech Tips."

After releasing the striker, press down on the takedown plate which is centered at the top of the frame's left side. Then, the slide must be pushed back approximately 1/8" before you can insert a small punch or paper clip into the slot on the right side of the frame and remove it. The slide assembly can now be moved forward and off the frame. Next, slightly compress the dual recoil springs on their polymer guide rod to remove them; then move the barrel slightly forward to allow it to be lifted up and out. Further disassembly is not necessary or advised. Reassemble in reverse order.

At the Range

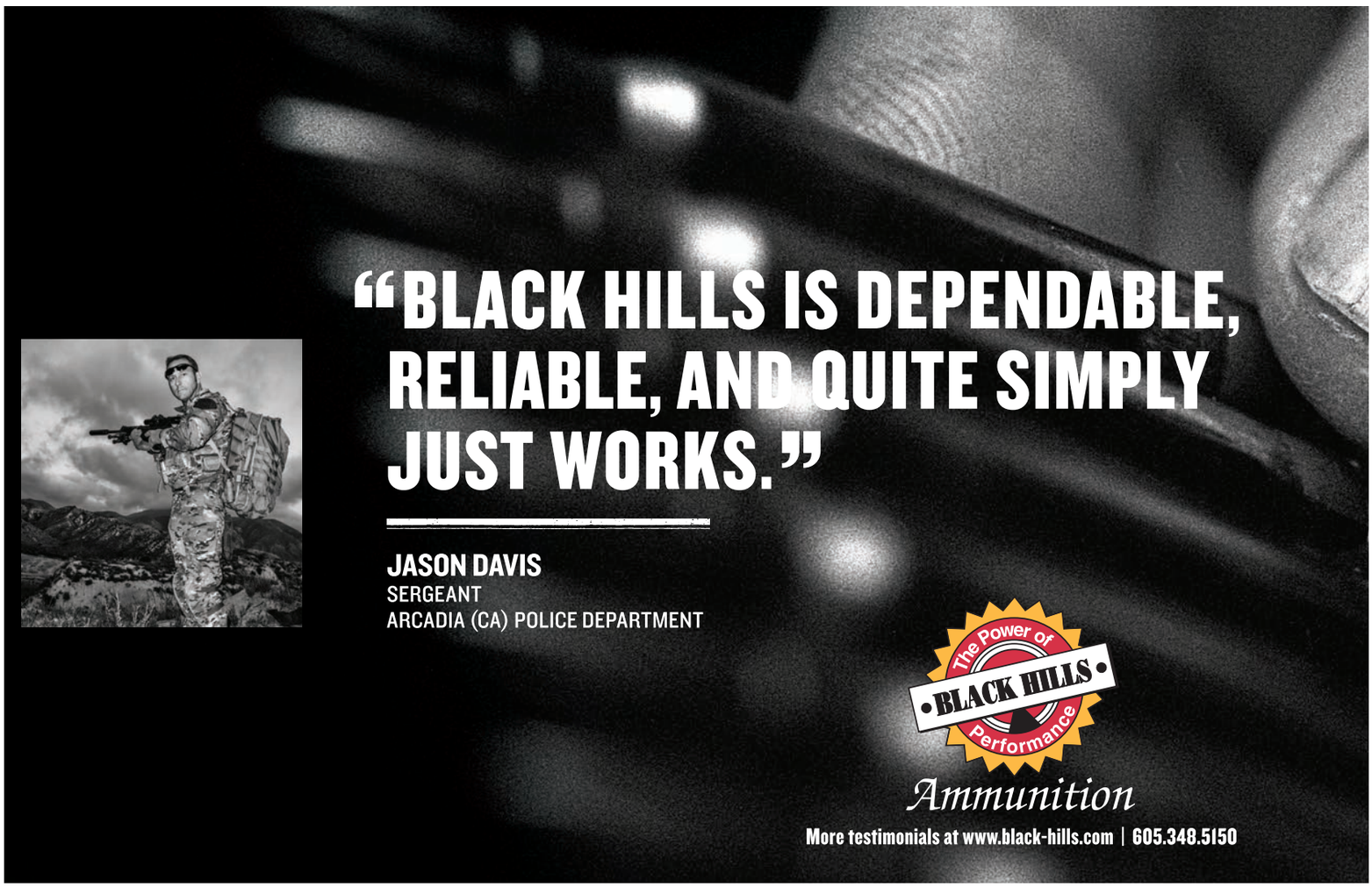
Shooting the LC9s was as rewarding an experience for me as I had when shooting the LC9. This time around, and with the help of my friends Dr. Joseph Mulligan and Irv Gill, we shot the LC9s at seven yards using Warren reduced size IDPA training targets. After we determined that the sights shot to point of aim at seven yards for all of us, and using the one inch black squares in the head and body of the white target, we then shot for groups while standing or seated and with two-handed support. We shot COR®BON 147-grain Performance Match, Magtech 115-grain JRN and Winchester® 147-grain TCMC ammo.

As usual, the three dot sight system worked

Shown are two seven yard, five shot groups of 1.25" and one group of 1.75".

against us when group shooting, but helped for quick defensive application pistol shooting. Irv fired as quickly as he could come back on a five inch Shoot•N•C® Dirty Bird® target and all of his shots where within the black bull. I chose one of clear black squares and thought I was on a roll when I saw that my first two rounds were on top of each other. I should not have looked, because then I tried too hard and blew it, with my last three shots resulting in a 1.25" group.

One note: The LC9 instruction book states that the gun is rated for, and can handle, +P ammunition, but cautions "...a steady diet of +P ammunition will shorten the endurance life..." The manual also clearly states (in red ink), "Do not use +P+ ammunition." It goes on to explain that there are no SAMMI or CIP pressure limits on +P+ and use



Circle 6029 for More Information

CHRONOGRAPH RESULTS

The following results (five shot averages) were obtained using a Gamma Master Chrony® chronograph at 300 feet above sea level with an ambient temperature of 60 degrees. The pistol used was the Ruger® LC9s® in caliber 9x19mm with a 3.17" barrel.

Ammunition	Velocity (fps)	Standard Deviation	Group Size
Winchester® 147-gr. Personal Protection JHP	937	2	1.75"
COR®BON Performance Match 147-gr. JFP	877	14	1.25"
Magtech 124-gr. FMJ	1023	16	1.25"

RUGER® LC9s® COMPACT PISTOL
Technical Specifications

Caliber: 9x19mm
Height: 4.5"
Weight: 17.10 ounces with empty magazine
Length: 6.0"
Width: .9"
Barrel: 3.12"
Barrel material: Alloy steel
Finish: Blued
Sights: Adjustable; three white dots
Slide: Through hardened alloy steel
Frame: Black, high performance, glass filled nylon
Trigger: Double-action external spurless hammer
Magazine capacity: 7 + 1 rounds
MSRP: $449.00

Approved for sale in California, but not in Massachusetts.

of this ammunition could result in serious injury. (Most users will not even find such ammunition available for purchase, since it's only made for – and at the request of – some "official" agencies.)

As far as which of the two models to choose, I liked both trigger pulls and the pistols themselves, so I would be comfortable using either version for self-defense. PSN

About the Author: Upon receiving his BS degree from Carnegie Tech and completing service as a Special Agent in U.S. Army Intelligence, Walt Rauch was a Special Agent with the U.S. Secret Service and an Investigator with the Warrant Unit, First Judicial District, PA.

Rauch is also a writer and lecturer in the firearms field. He is published regularly in national and international publications.

For more information on the Ruger LC9s or LC9, or to learn more about the extensive line of Ruger firearms, visit **www.Ruger.com**. To find accessories for the LC9 or other Ruger firearms, visit **www.ShopRuger.com**.

Circle 6030 for More Information

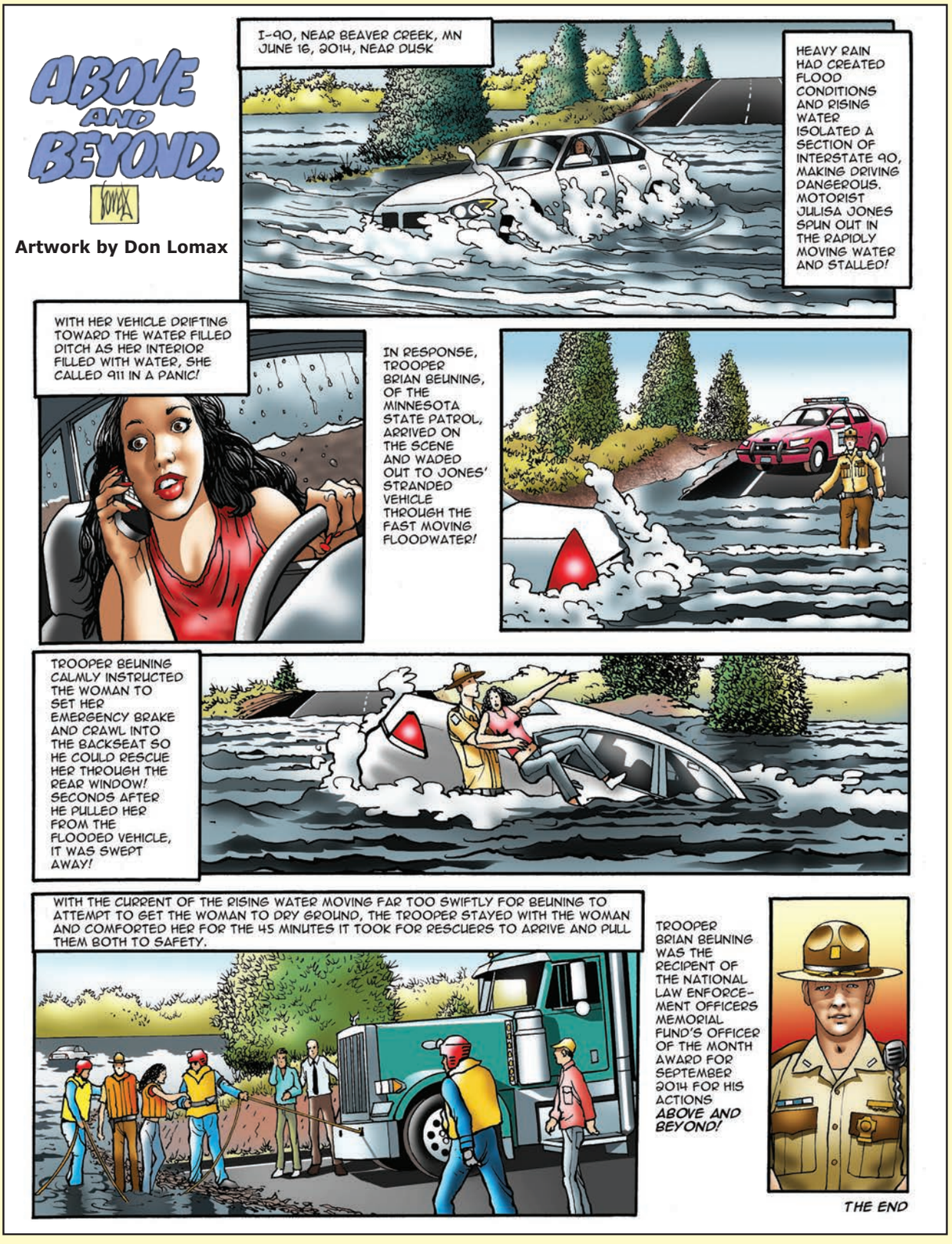
TUFLOC®
For A Tough World
TUFBOX SECURITY DRAWERS
TufBox locking drawer systems provide a way to safely secure guns, store equipment and organize belongings. Manufactured with heavy-duty steel, the TufBox is built to withstand the everyday demands that are expected of all Tufloc products. Available for all SUV's and cruisers.
Featuring the TufBox Base
When additional clearance is needed, this adjustable base will allow the TufBox to be raised off the vehicle's floor. The base provides storage under the drawer while still allowing access to the spare tire.
Accessories:
• Motion-Activated Light
• 3" Raised Lip
• Exterior Protective Rubber Mat
• Premium T-Handle Keyed Lock
• Combination with Key Override
• Interior Foam • Drawer Dividers
Gun Racks • Lockers • Organizers • Locks
800-321-0870 www.tufloc.com

Circle 6031 for More Information

Above and Beyond...

HONORING THOSE WHO TAKE RISKS AND SAVE LIVES

"Above and Beyond..." salutes Trooper Brian Beuning of the Minnesota State Patrol


ABOVE AND BEYOND...
I-90, NEAR BEAVER CREEK, MN JUNE 16, 2014, NEAR DUSK
HEAVY RAIN HAD CREATED FLOOD CONDITIONS AND RISING WATER ISOLATED A SECTION OF INTERSTATE 90, MAKING DRIVING DANGEROUS. MOTORIST JULISA JONES SPUN OUT IN THE RAPIDLY MOVING WATER AND STALLED!
WITH HER VEHICLE DRIFTING TOWARD THE WATER FILLED DITCH AS HER INTERIOR FILLED WITH WATER, SHE CALLED 911 IN A PANIC!
IN RESPONSE, TROOPER BRIAN BEUNING, OF THE MINNESOTA STATE PATROL, ARRIVED ON THE SCENE AND WADED OUT TO JONES' STRANDED VEHICLE THROUGH THE FAST MOVING FLOODWATER!
TROOPER BEUNING CALMLY INSTRUCTED THE WOMAN TO SET HER EMERGENCY BRAKE AND CRAWL INTO THE BACKSEAT SO HE COULD RESCUE HER THROUGH THE REAR WINDOW! SECONDS AFTER HE PULLED HER FROM THE FLOODED VEHICLE, IT WAS SWEPT AWAY!
WITH THE CURRENT OF THE RISING WATER MOVING FAR TOO SWIFTLY FOR BEUNING TO ATTEMPT TO GET THE WOMAN TO DRY GROUND, THE TROOPER STAYED WITH THE WOMAN AND COMFORTED HER FOR THE 45 MINUTES IT TOOK FOR RESCUERS TO ARRIVE AND PULL THEM BOTH TO SAFETY.
TROOPER BRIAN BEUNING WAS THE RECIPENT OF THE NATIONAL LAW ENFORCEMENT OFFICERS MEMORIAL FUND'S OFFICER OF THE MONTH AWARD FOR SEPTEMBER 2014 FOR HIS ACTIONS ABOVE AND BEYOND!
THE END

Artwork by Don Lomax

"Above and Beyond..." Sponsored by Original S.W.A.T. Footwear Co.

ORIGINAL S.W.A.T.
TACTICAL FOOTWEAR

Do you (or someone you know) deserve special recognition for answering the call of duty while ignoring your own personal safety? *Police and Security News* and Original S.W.A.T. want to know!

Upon acceptance, these actions will be highlighted in an illustrated format and published in a future edition of *Police and Security News*. Additionally, a digital file of the published artwork will be presented free of charge to the individual or department/agency as a remembrance. AND, the chosen participants – the nominator(s) and the honored individual(s) – will each receive a FREE pair of Original S.W.A.T. Chase 9" Tactical Side Zip boots – compliments of the Original S.W.A.T. Footwear Co.

Nominations for "Above and Beyond..." should be based on the factual rescue of a citizen or the apprehension of a criminal in which the officer(s) demonstrated exceptional courage and bravery.

Submissions should include a brief description of the incident, photos of the officer(s), as well as a letter or E-mail from the ranking officer of the department/agency certifying the nomination.

Please direct all submissions and/or questions to:
James Devery, Editor
Police and Security News
1208 Juniper St.
Quakertown, PA 18951
jdevery@policeandsecuritynews.com

Mobile App Allows Anonymous Cyberbullying Reporting

NEWS

STOPit, an anticyberbullying program which provides schools with a mobile app, allows victims and witnesses to anonymously report incidents. More than 200 schools, representing approximately 120,000 students across the U.S., have implemented STOPit for the 2014-2015 academic year. The STOPit app is installed on Apple® or Android devices.

How it works:

- Access codes are given to school for distribution to the students;
- Students download STOPit from the App Store free of charge and enter supplied access code;
- The app will be personalized with the school name and the School Cyberbully Contact button will be preprogrammed; and
- Crisis Call Center is also preloaded for one touch call or text access.

More information on the app can be found at **www.stopitcyberbully.com**.

TacView® 3.10 - *Only $1995.00*

NTOA MEMBER TESTED and RECOMMENDED

- The TacView 3.10 is a weatherproof, pole mounted, IR/color camera which can help you search areas in daylight or in total darkness.
- The Telescopic Pole is expandable from three (3) feet to ten (10) feet.
- Optional one hundred (100) feet of extension cable which enables the detachable camera head to be positioned away from the monitor and behind cover
- Two (2) year warranty and thirty (30) day unconditional money back guarantee

TacView, Inc. 1300 S. Frazier Ste. 206 Conroe, TX 77301
Tel. 936.756.4555 Web: www.tacview.com
TacView

Circle 6036 for More Information

LAW ENFORCEMENT
EXECUTIVE LEADERSHIP

UNDERGRADUATE AND GRADUATE CERTIFICATES

Developed in partnership with statewide law enforcement associations, American Military University offers:

- Support through scholarship programs
- Cohort class registration options
- Courses that include evidence-based learning outcomes

TO LEARN MORE, VISIT PUBLICSAFETYATAMU.COM/PSN OR EMAIL LELEADERSHIP@APUS.EDU

AMU American Military University
Learn from the leader.™

AMU is part of the accredited American Public University System and certified to operate by SCHEV.

Circle 6035 for More Information

SETINA

DON'T BLOW YOUR DOORS! KEEP'EM!

Precision fit over existing door panel. No need to remove door panel or disconnect locks.

Patent Pending

Setina Seating System and Door Guards, quality contour fit over manufacturer's vehicle designs

POLY WINDOW BARRIERS

Setina Scratch Resistant Polycarbonate Window Barriers provide increased visibility. Guaranteed unbreakable for 10 years.

MAINTAIN YOUR FLEET! DON'T STORE YOUR SEAT!

PRISONER TRANSPORT SEATING

Sometimes Do You Feel Like You Are Running A Warehouse?

Our New "Advanced Design" TPO seating systems are easily installed, with a "Precision Fit" right over your vehicle's existing seat. Unlike other models, there is no longer the expensive need to remove and store your vehicle's factory seat.

Center Pull Seat Belt Design
Precision "Slip Cover" Fit

SETINA

CALL:1·800·426·2627
Visit Us At
www.setina.com

Circle 6040 for More Information

The Wheels of Justice

Photos by Raymond Holt, Michigan State Police

Sgt. James G. Post

TRANSPORTATION 2015

P&SN presents its 17th annual report on the latest technical advances in police vehicles, components and accessories.

Greetings and welcome to "Transportation 2015," our annual review of all that's new in the world of law enforcement transportation. We'll cover vehicle choices and changes, both enclosed and open (motorcycles), as well as how both groups performed at the annual Michigan State Police (MSP) tests back in September. Following the vehicle section, we'll present the latest in emergency equipment and vehicle accessories from your favorite manufacturers. So, sit down and strap yourself in for an exciting ride into 2015!

Is There a Pickup in Your Future?

After six decades of four-door police sedans from the "Big Three," followed by Jeep®s, and other SUVs, you now have a third choice for patrol duties – pickup trucks, as all three now offer Special Service half ton pickups. The use of pickups by law enforcement is not really new, as agencies in mountainous regions have been using them for several years. These were not law enforcement specific, but retail and fleet units modified for uniform duty. Long popular for use by park rangers and fish and game, pickups slowly merged with sedans and SUVs. Dodge Ram® was the first to offer a Special Service unit a few years ago, followed by Ford. Chevy is now onboard with their Silverado SSV, unveiled in Kansas City back in May.

Pickups offer many advantages over sedans and SUVs. First, they are cheaper by a couple thousand dollars and resale is bound to be better than the sedans (as the SUVs have proven already), because pickups are so popular with the public and businesses throughout America. For example, pickup trucks are the number one most licensed vehicle in my state of Arkansas. Plus, used law enforcement trucks will not carry the stigma of driving a used "old police car."

The new Silverado SSV is Chevy's answer to the Ram® 1500 Special Service Vehicle.

There are numerous other reasons to choose a pickup. All are offered in 4X4, so maneuverability in all types of weather and road conditions is not an issue. The taller heights provide greater visibility for both your officers and the public. The three offerings feature four-door models, providing the opportunity for prisoner transport or carrying several officers to an incident.

The most obvious advantage is the rear carrying capacity. I think about the many recovered bicycle calls I handled. If a paddy wagon was not available, it meant into the trunk it went – with all of the rest of the required equipment. Of course, the bicycles hung partially out of the

trunk anyway, but that task would be impossible with today's downsized cruisers.

Several law enforcement suppliers offer a variety of compartments and slide out trays for the popular trucks. Of course, the accessories offered for civilian trucks, such as hard cover tonneaus, bed liners, running boards and fiberglass shells, can be added, too.

The primary disadvantage of pickup trucks is that they are not pursuit rated. The lower speeds, 4WD and a high center of gravity make pursuits very dangerous, but, if your agency already has a mix of pursuit-rated sedans and SUVs, you might take a look at the pickups from the same manufacturer for other duties.

Following are in-depth reviews of what's new from the cop car manufacturers in Detroit, Auburn Hills and Dearborn. You spoke and they have listened. But, first, we'll cover the highlights of this year's MSP tests.

If It's Broke...

The MSP tests are conducted over two days every September. On the first day, everyone meets at the Chrysler Proving Grounds in Chelsea, MI, where the troopers conduct acceleration, top speed and brake tests.

The FWD Chevy Impala posted this year's top speed of 150 mph.

After a well deserved day off, the drivers move to the Grattan Raceway in Belding, MI, for the vehicle dynamics tests, where they evaluate ergonomics, handling, comfort and performance. Grattan is a two mile winding road course with ten challenging corners. One of those corners prompted the title of this section because the only causality of this year's tests was a 4WD Tahoe. The driver explained, "I just lost it," and it careened off the course, resulting in a couple grand's worth of damage. Fortunately, the two troopers walked away with no injuries other than to their pride.

The MSP evaluations test the strengths and weaknesses of the vehicles and the endurance of the MSP staff. I remember, several years ago, witnessing a vehicle's calipers and rotors erupt into flames after a particularly grueling brake test. This year's tests were attended by an estimated 200 plus fleet managers from all over North America and were conducted in mild weather.

Fourteen vehicles were put through the paces this year: five Chevrolets (Caprices with a 3.6L V-6 and a 6.0L V-8 and 2WD and 4WD Tahoes with 5.3L V-8s); four Dodge Chargers were entered (two 3.6L V-6s with different gear ratios and two HEMI® 5.7Ls – one RWD and one AWD); Ford provided five V-6 units (three PI sedans – one with a FWD 3.5L, one with an AWD 3.7L and a third with a 3.5L EcoBoost® in AWD – and two PI utilities – one with a 3.7L AWD and one with a 3.5L EcoBoost in AWD). In addition, the Silverado SSV was evaluated, but those results were not published.

Following are this year's highlights:

Top Speed

The first question always asked is, "Which cruiser was fastest?" This year, I think you will be surprised; I know I was. The fastest time, with a top speed of 150 mph, was the FWD Chevy Impala with the screaming 3.6L V-6. Tied for second place at 149 mph were two AWD entries – the Dodge Charger HEMI and the Ford PI EcoBoost sedan. Tied for third place were the two Chevy Caprices at 147 mph, despite dominating in previous years. Granted, there are only a few miles difference here, but these results prove the Impala is certainly still in the game.

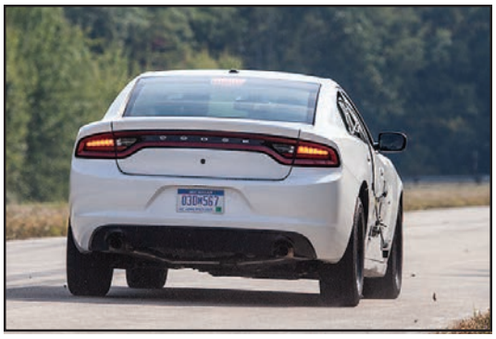
The slowest vehicle of any tested was the 4WD Tahoe at 121 mph. There were no other vehicles slower than 132 mph.

Zero to 60 and 100

Acceleration speeds are measured in increments of 20 mph, but the two we most identify with are 0-60 mph and 0-100 mph. Where 0-60 is the criteria

SPECTRALUX®
PUTS YOU IN CONTROL
SpectraLux®
POLICE
Federal Signal's exclusive SpectraLux® multicolor LED technology keeps you safely in control of an emergency situation. SpectraLux® allows for a single light head to change color while in operation, providing 360° of continuous light output from takedown and alleys to an impressive flood feature. Use its all-white flood light to locate a suspect or select an amber flash pattern to safely direct traffic away from an emergency scene—and you.
FEDERAL SIGNAL
To see EXCLUSIVE SPECTRALUX® LIGHTBAR TECHNOLOGY as featured on Valor® and Integrity® from Federal Signal, visit fedsig.com
The logotypes displayed on the vehicles are the registered trademark of Ford Motor Company and General Motors Corporation, respectively.

Circle 6041 for More Information



Dodge's V-6 Charger turned in the shortest stopping distance at 124.8 feet.

used for bragging rights by automakers worldwide, 0-100 is the rating state patrols are most concerned with, as it represents the speed needed to overtake most violators from a standing start. The fastest 0-60 time posted was the AWD Ford EcoBoost sedan at 5.85 seconds, followed by the V-8 Caprice at 6.17 seconds and the higher gear ratio (2.62) HEMI RWD Charger at 6.38 seconds. The same AWD EcoBoost Sedan posted the fastest 0-100 at 14.19 seconds, beating the V-8 Caprice at 14.69 seconds. The higher geared Charger came in at almost one second more at 15.48 seconds.

The timed results are as much, or more, significant than top speeds, because police work is not the Autobahn; it's often more like a drag race. The Impala, which posted the top speed of 150 mph, was nowhere near the leaders of the timed results, placing seconds longer than the EcoBoost Ford and the HEMI Charger.

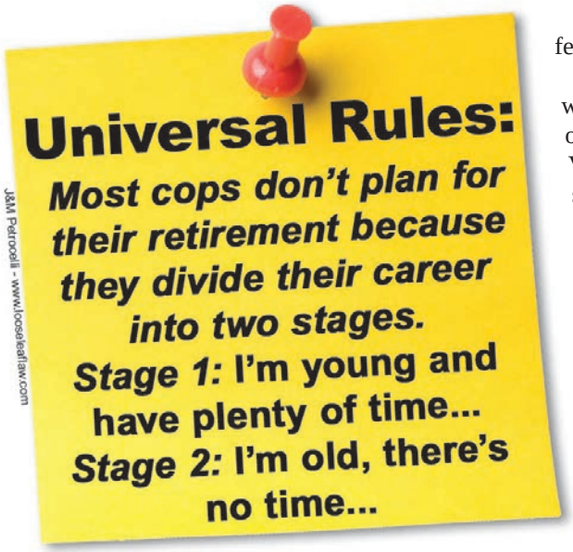
Braking Results

As more contemporary police cars meet and exceed speeds seldom seen since the late 1990s with the 9C1/LT1Caprices and the B4C Camaros, the manufacturers have had to become more aware of the braking systems. The final rankings for the braking evaluations are posted in feet as the projected stopping distance from 60 mph. Unlike the top speed competition, this is where the lowest number wins. After years of complaints concerning their brakes, Chrysler was the clear winner in the braking competition. Their V-6 Charger was top dog at 124.8 feet, followed closely by the higher geared HEMI at 125.1 feet. Third place was the V-8 Caprice at 126.8 feet and another Charger was fourth at 127.6 feet.

Posting the worst (longest) estimated stopping distances were the two Chevy Tahoes, going over ten feet further (135.6 feet and 135.7 feet) than the winning Charger. Ten feet may not seem like much folks, but that's longer than a crosswalk is wide,

Circle 6043 for More Information

Circle 6042 for More Information


Universal Rules:
Most cops don't plan for their retirement because they divide their career into two stages.
Stage 1: I'm young and have plenty of time...
Stage 2: I'm old, there's no time...
J&M Petrocelli - www.looseleaflaw.com

wider than most residential driveways and nearly halfway into most intersections.

COMING TO A SHOWROOM NEAR YOU

Chevrolet

The "Bow Tie" folks offer a wide variety of choices to law enforcement consumers – from sixes to eights; FWD to 4WD; and sedans, SUVs, and now trucks. The RWD Caprice PPV continues to show lackluster sales for several reasons. The price is so close to that of the Tahoe that most departments opt for the SUV. The higher stance, better visibility and phenomenal resale are just a few of the reasons.

This year's model is basically a carryover, with minor tweaks and adjustments. The Caprice offers two power plants, the 6.0L V-8 or 3.6L V-6, both covered by a two year/24,000 mile scheduled maintenance program. The PPV features police specific seating, eight air bags and the most interior room of any contemporary police sedan.

The current holder of the longest running model nameplate is the venerable FWD Impala, largely due to a bevy of hardcore fans throughout the U.S. The 3.6L V-6 engine coupled to a six-speed automatic is a powerful combination, as witnessed at the MSP tests. This year's model is a carryover and is still available for marked patrol (9C1) or detective (9C3) duty.

The popular Tahoe is all new for 2015. It is available in three configurations: the 2WD and 4WD PPV 9C1 pursuits, and a Special Service (nonpursuit) 4WD. They feature standard OnStar and Bluetooth® capabilities; wider doors; a standard, isolated auxiliary battery; a rear seat viewing/conversation mirror; rear A/C and heat; and a host of other options. The Tahoe is available in seven colors to fit your department's palate.

Also new for 2015 is the exciting Silverado 1500 SSV crew cab, available in two trim packages and powered by GM's proven 5.3L EcoTec

The well liked Tahoe is all new and improved for 2015.

V-8, rated at 355 hp and with standard Active Fuel Management. It delivers the highest EPA fuel economy of all full-sized 2WD pickups.

Departments can choose between 2WD or 4WD and two bed lengths – 6' 6" or 5' 8". Like the Tahoe, the Silverado features an auxiliary battery. It also has four power supply switches, HD transmission coolers and air cleaners and Duralife® brake rotors. Buyers can choose from a list of options which include a spotlight, flasher system and rear vision camera. The Silverado comes with the industry's best pickup coverage, too, including the two year/24K maintenance program, plus a three year/36K bumper to bumper (limited) warranty and a five year/100K power train (limited) warranty. And, it comes in a whopping ten color choices!

2 TIMERS 1 INSTALL

T2 SHUT DOWN TIMER

The Lind T2 Shut Down Timer protects your vehicle battery from over-discharge, and protects communications and other sensitive equipment from low voltage and high voltage damage.

The T2 Shut Down Timer turns off electrical loads at a preset time after the car engine is shut down. The timer has two outputs; each has its own time delay.

To learn how the **T2 Shut Down Timer** can work for you, contact Lind at **1.800.697.3701**, via email at **info@lindelectronics.com** or visit us online at **www.lindelectronics.com**.

LIND POWER SPECIALISTS FOR MOBILE COMPUTING

Circle 6044 for More Information

NEW

Pro-Straint® Seat for Chevy Tahoe

Includes Centerbelt system, metal mesh rear partition and installation hardware

All Seats available in:

Centerbelt or Factory belt

"The Original TPO Seat"

MAXIMUM interior space!

Available for: CHRYSLER Ford GM

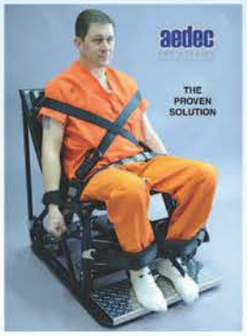
Custom Formed Seat and Modular Seat solutions - For more information call or visit aedec.com today!

2013 Ford PI Utility SUV Seat

Custom Formed

Modular Seat

Aedec Seats are made from durable materials that won't fade or crack and withstand even the most extreme cleaning solutions for a long and trouble-free service life. Molded-in arm channels work with the patented Pro-Straint® system for maximum security and officer safety.



Call today, or visit www.pro-straint.com For information on our restraint chairs. The professional and proven solution to prisoner transport.

aedec

PRO-STRAINT

Prisoner Safety Seats

(877) 854-0034

Fax 253-854-4683

sales@aedec.com

www.aedec.com

Made in USA

VISA MasterCard

Circle 6046 for More Information

Chrysler Corporation

Chrysler is having a really good year. Fueled by the merger with Fiat and the incredible popularity and numerous awards given to their Ram line and the increased sales of their civilian Chargers and Challengers, they are coming back big. They celebrated two significant anniversaries this year: 50 years for the HEMI engine and 100 years for the Dodge name.

Unfortunately, there's bad news from Chrysler, too. On October 15, they announced a recall of all 2011 to 2014 Chargers, Challengers, Chrysler 300s and Durangos powered by the 3.6L V-6 because of faulty alternators. The alternators can present a fire hazard, resulting in loss of steering and more. It is unknown at this time if this includes the law enforcement package Chargers and Durangos, as they have different alternators. Last year's recall of 2009 to 2011 HEMI cars for faulty timing chains did involve the Charger Pursuit and dealers quickly replaced the faulty parts.

The Charger Pursuit has helped fuel the flames of success, too, as they are the top selling RWD police sedan on the market today. The 2015 model has a new fascia and has been termed "the most menacing police car in America" by one automotive publication. It is still available with two engine choices, the Pentastar® 3.6L V-6 and the 5.7L HEMI V-8. The six is available in two gear ratios (2.62 and 3.08) and the HEMI is available in the new AWD version. Dodge's AWD is fully automatic and stays engaged until traction has been regained.

For 2015, the Dodge Charger Pursuit sports an all new, forward leaning front fascia.

The Chrysler Ram Division has several offerings as well. The 2015 Durango SSV comes with a number of new capability and design features and includes a transferable five year/100K mile power train (limited) warranty. It is available in two engine choices, the 3.6L Pentastar FlexFuel V-6 or the 5.7L HEMI with Fuel Saver Technology. An eight-speed automatic transmission is standard and RWD and AWD are available with both engines. Options include a rear backup camera, engine block heater and skid plates.

Other offerings from the Ram Division include the Ram 1500 Special Service pickup truck which is a crew cab, HEMI powered monster with a six-speed transmission and part-time 4WD. An exclusive RAM option is their RamBox® Cargo Management System which consists of two lockable, drainable and lighted compartments built into the bed sides. The Ram 1500 Special Service offers the most police specific features of competition's trucks.

The Ram Division features two other vehicles suitable for some police duties (other than patrol), the ProMaster® large van and the smaller Tradesman. Both are FWD with 3.6L V-6 engines and six-speed autos standard.

Ford Motor Company

Ford also celebrated significant anniversaries during 2014. The Mercury nameplate is now 75 years old (although the brand has been cancelled), but that anniversary was overshadowed by the 50th anniversary of the Mustang. In addition to being the longest produced single model in U.S. history, the Mustang has strong law enforcement ties, too. The SSP Mustangs were produced from 1982 to 1992 and, during this span, some 26 state patrols used them.

Ford's Police Interceptors, both in the Sedan and Utility versions, also have a large following. Not as many as the popular Crown Vics they replaced, perhaps, but strong sales to Ford loyal

Circle 6048 for More Information

Code 3 is Tahoe Ready!

Code 3 is Tahoe Ready with a variety of specifically designed lights and brackets

- Tahoe Bracket for your Code 3 Defender® Lightbar (more lightbars available - see website)
- Citadel Rear Exterior Windshield Light (shown to the left)
- SuperVisor® Front Interior Light (shown above)
- MR6 & XT4 Grille Lights
- XT4 Double Stack Fog Light
- XT4 & MR6 Mirror Lights
- MR6, XT3, T-Rex, LEDX License Plate Lights
- C3100 Compact Speaker(s) not shown

And more . . .

Visit our website for all your Tahoe options and get a quote!

Code 3 – Ready When You Are!

CODE 3®

A Division of ESG | www.code3esg.com | 314.426.2700

Scan the QR Code for more product information!

Circle 6049 for More Information

Ford's Interceptors (both Sedan and Utility versions) offer a few improvements for 2015.

The new Transit PTV (Prisoner Transport Vehicle) is built on the all new 2015 Ford Transit van.

departments nonetheless. The Interceptors offer a few improvements for 2015. Officers will approve of the redesigned door openings and seating.

Both versions continue to be offered with V-6s and FWD standard. Optional are the EcoBoost 3.5L V-6s and AWD. The combination of the turbo-charged engine and four wheels pulling is a combination which is hard to beat, as shown at the MSP tests. The Interceptor Utilities seem to be outselling the Sedans two to one. The main reasons given are the increased interior room and the higher profile.

Both Interceptors offer a wide range of emergency lighting and an industry first, two-tone vehicle vinyl wraps with generic POLICE or SHERIFF lettering. Add your own badging and you are ready to hit the streets. The PI Sedans are also offered in a plainclothes, unmarked version which features civilian type consoles and other stealth features.

Ford offers other Special Service units as well. The Expedition SSV is a large RWD SUV in direct competition with Chevy's Suburban. It is powered by a 5.4L FFV SOHC V-8 coupled to a six-speed auto. It hosts a bunch of safety features, including four wheel disc brakes with ABS, a reinforced Safety Canopy which includes the third row of seats and beefed up side impact coverage. The body trim is blacked out for a stealth appearance and the interior features durable second and third row seat covers and flooring in optional vinyl.

The Transit Prisoner Transport Vehicle (PTV) grew out of the popular full-size commercial Transit Van and is available in three roof heights and two wheelbases and power choices.

Of course, the biggest announcement from Ford in several years has been the introduction of the completely redesigned, all aluminum bodied F-150 pickup truck, weighing in at 700 pounds less than its predecessor. No word yet if the F-150 will again be offered in a SSV version, but, if Ford follows precedent, law enforcement versions will come only after substantial civilian sales, as law enforcement vehicles have the lowest profit margin of all vehicles built.

FLYIN' SOLO

Motorcycles continue to be a popular choice for many state, county and local agencies for traffic and escort duties and the manufacturers continue to upgrade their products.

This year, MSP tested four popular makes. BMW brought the R1200 RTP, while Harley-Davidson® had three models, the FLHTP Electra Glide®, FLHP Road King® and FLHTP Electra Glide Special. Moto Guzzi presented two models, the California 1400 and the Norge 1200 and Can-Am brought their Spyder RTP, a three-wheel motorcycle.

An interesting thing happened at the Chelsea Proving Grounds. The BMW recorded the fastest speed (141 mph), the fastest 0-60 (3.99 seconds)

DATALUX
MOBILE COMPUTING SOLUTIONS

Uninterrupted Power that Keeps You
Mobile and Connected

The TRU-PowerPack Provides Continuous Power

Rely on Datalux TRU-PowerPack Vehicle UPS
Keep Your Mission Critical Electronics Up & Running

- Compatible with Datalux Tracer and other vehicle peripherals requiring +12VDC input
- Provides stable output power during voltage sags and spikes
- Absorbs power surges and transients
- Rugged metal enclosed with included mounting bases
- Slim design allows mounting to Datalux TRU-MOUNT or other vehicle mounts
- Remote ON/OFF switch for external operation

Find Out More About the Datalux TRU-PowerPack

1-800-DATALUX • www.datalux.com

Circle 6050 for More Information

NEWS

Gear and Equipment Significantly Impede Movement

A new study by the Force Science Institute (FSI) documents that officers may be "significantly" impeded in trying to move quickly away from threats because of the weight of their duty belt gear and protective equipment.

Subjecting a pool of law enforcement students to a series of "maximal effort" sprint tests, researchers led by FSI's Executive Director Dr. Bill Lewinski found that adding about 20 pounds to the recruits to simulate a typically outfitted duty belt and ballistic vest resulted in "significant detrimental effects on officer velocity and acceleration" in taking the critical first six strides away from danger.

"This impediment can impact how quickly an officer can move to cover from a shooting attack; get out of the way of an oncoming vehicle; or maneuver effectively during a close quarters physical encounter," Lewinski told *Force Science News*. "Because our test subjects were young and very fit, the average officer is likely to be even more negatively affected than they were." The answer, Lewinski suggests is a career-long commitment to lower body strength and power training and maintenance, as well as intensive agility training.

A full report of the study, "The Influence of Officer Equipment and Protection on Short Sprinting Performance" will be published next year in the journal, *Applied Ergonomics*.

The Can-Am was new at MSP testing this year.

and 0-100 (9.14 seconds) times! In fact, the second place in all three categories was the Moto Guzzi 1200 (127 mph, 4.69 and 12.51 seconds) and the third place in all three was the Moto Guzzi 1400 (117 mph, 4.94 and 15.01 seconds). The slowest top speed recorded was the H-D® Electra Glide Special at 110 mph, followed by the other two Harleys tied at 113 mph. The slowest 0-60 and 0-100 times were recorded by the Can-Am at 6.55 and 20.56 seconds, followed by two of the Harleys.

At the brake tests, the entrants changed places slightly. The Can-Am recorded the shortest projected braking distance at 126.1 feet, due to in part because they have two front wheels. The best stopping distance for a bike was the Moto Guzzi 1200 (130.4 feet), followed by the "Beemer" at 133.3 feet and the Moto Guzzi 1400 at 134.1 feet.

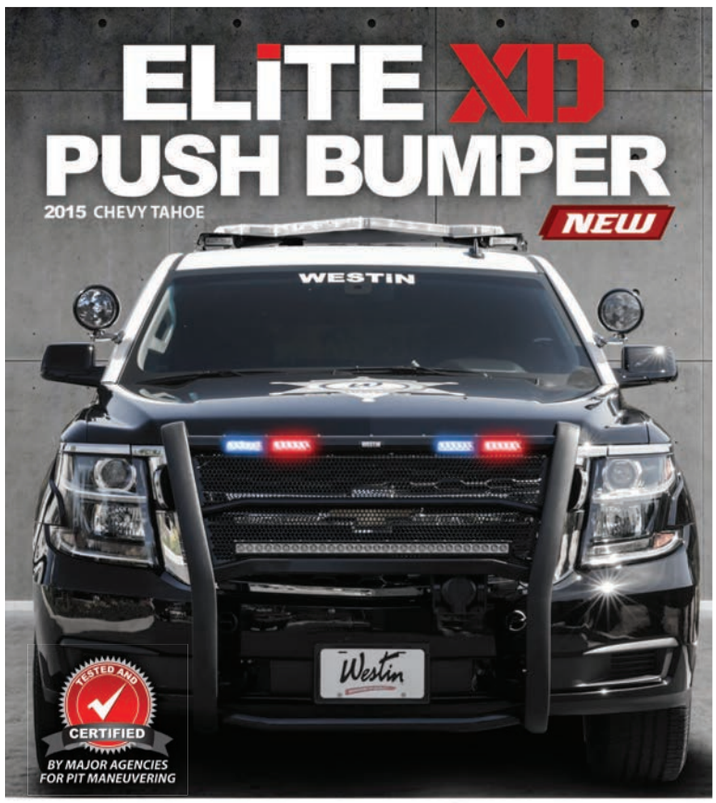
BMW Motorrad USA
(www.bmwmc.net)

BMW has introduced the all new R 1200 RT-P police motor for 2015. The bike morphed from the K52 platform, inheriting all of the improvements of the civilian model. The new model features a self-adjusting wet clutch, a completely new emergency lighting system and a power management system for all accessories. You'll also find a police calibrated electronic speed control, selectable light pattern and much more.

Harley-Davidson Motor Co.
(www.harley-davidson.com)

Harleys remain the strongest selling police motorcycles in North America. One could argue that those sales figures are a combined total of four law enforcement models offered, but I think it's more about brand loyalty, a 100 year track record, outstanding buy in and trade-in prices and great dealer support. Harley offers more H-D branded and warranted emergency equipment than anyone else and their training programs are superior to all

Circle 6053 for More Information



Westin's EliteXD Push Bumper is an all new design that is based on the Elite front-end protection program but is a clear representation of heavy duty style. It provides multiple options for your agency's specific lighting requirements with your choice of a 2 or 4 Light Top Channel that will accommodate Code3, Federal Signal, Whelen, or SoundOff Signal LED lights.

WESTIN
Public Safety Division
PH: 800.345.8476
WESTINPUBLICSAFETY.COM

Circle 6051 for More Information

RISK MANAGEMENT STARTS HERE!
$99
TREMCO POLICE PRODUCTS
VOLUME DISCOUNTS AVAILABLE
DON'T LET THEM STEAL IT.
Now police can LEAVE THEIR CRUISERS RUNNING UNATTENDED for emergency situations.
ALLOWS EMERGENCY LIGHTING, ...computers, radios, heaters, air conditioners, and defrosters to operate while maintaining needed battery current.
INEXPENSIVE. Fast and easy to use with our patented™ camouflaged plug-in system.
EASY INSTALLATION Plugs right in.
For 20 years, this police tool has protected thousands of agency vehicles from the liability of chases, fatalities, damage to vehicles, and loss of weapons.
Over half the state and highway patrol agencies use this system.
Tremco Police Anti-Theft
INTEGRATED SYSTEM
1-888-666-3031
www.tremcopoliceproducts.com

Circle 6052 for More Information

HARLEY-DAVIDSON® POLICE MOTORCYCLES: ALWAYS IN COMMAND

For over a century our motorcycles have been proven to handle the toughest demands of the job. Handling, braking, and acceleration are essential elements of being in command and that is why Harley-Davidson works with law enforcement worldwide to provide motorcycles that are made for Motor Officers.

KEY FEATURES:

- Reflex™ Linked Brakes with ABS
- Smooth Passing Power
- 49mm Front Forks
- One-Touch Hand Controls
- Quick Saddlebags Access

Model shown is the FLHTP Police Electra Glide®.
Shown with optional emergency equipment available through Harley-Davidson® dealerships.

Find out more at *www.harley-davidsonpolicemotors.com* or *www.harley-davidson.com*.

©2014 H-D. All rights reserved.

Circle 6055 for More Information

Harley-Davidson® tested three models at MSP this year.

of the competition. They offer training for instructors, riders and technicians, some with university accreditation.

The engineers at H-D do listen to you and every model year changes reflect customer suggestions, opinions and complaints and the 2015 models continue that philosophy.

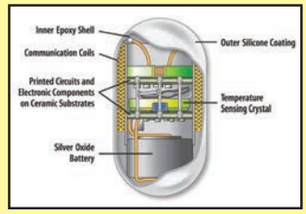
Harley-Davidson police motors offered for 2015 are the FLHP Road King, FLHTP Electra Glide, FLHTP Electra Glide Special and the Sportster® XL. The FL series are all powered by the 1690cc High Output Twin Cam 103 engine which has six percent more power than its predecessor. Handling has been improved with a 29° steering head angle and an open concept wheel.

The Reflex Linked Brake System (introduced in 2014) has ABS which coordinates the front and rear brakes, linking them over 25 mph and disengaging below 25 mph. Electra Glides feature a powerful new headlight with 2X wider coverage, while the Road King features powerful dual halogen headlights. Other changes include revised emergency equipment controls, a digital speed readout and a new "batwing" fairing on the Electra Glide which includes the Splitstream Vent which reduces buffeting of the operator's head at high speeds.

There was no information provided by Moto Guzzi or Can-Am prior to publication.

Officers Swallow Pill to Help Study Body Temps

NEWS



A National Institute of Justice funded study is looking at the effect of body armor on core body temperature. The New Orleans *Times-Picayune* reports Tactical Medics International is working with the Baton Rouge Police Department to learn and measure the body temperatures of officers.

As part of the study, officers take an ingestible thermometer pill which has a CorTemp® Ingestible Core Body Temperature Sensor from HQInc. The core body temperature is transmitted wirelessly as it travels through the digestive tract. The sensor's signal passes through the body to the CorTemp Data Recorder worn on the outside of the body.

How the CorTemp Sensor Works

The silicone coated sensor contains a micro battery, quartz crystal, communication coil and circuit board, all encapsulated in medical grade epoxy. Once ingested, the crystal sensor vibrates at a frequency relative to the body's internal temperature, produces a magnetic flux and transmits a low frequency signal harmlessly through the body. The sensor passes through the body at the subject's normal rate of motility which can vary anywhere from 24 to 36 hours.

LIGHTS, CAMERAS, ACTION – LET'S ROLL

Following is the latest and greatest from U.S. emergency equipment manufacturers as revealed at 2014 trade expos. Light 'em up.

Carson Manufacturing Co., Inc.
(www.carson-mfg.com)

Carson Sirens has introduced the SC-411 Elite Force Series handheld siren controller which features QuickClone® duplication technology, making the settings you pick transferable between units. It is available in dual two tone (requiring two speakers) or the 100/200 watt single tone model.

Code 3®, Inc.
(www.code3pse.com)

Code 3 has a number of new products for your fleet. The SD24 LED is a thin light which fits almost anywhere on a vehicle's exterior. It is 3.3" W x 1.1" H x .04" D, and comes with nine feet of cable. It comes in the five popular LED hues and has 16 flash patterns. Code 3 is understandably proud of their new Triumph™ lightbar which is the most modern two tier lightbar available, providing a full 360o of visibility. It is available with red or blue top lenses, while the lower level is clear for takedowns, alley lights and a traffic advisor. It comes in a length of 47", with a maximum height of 4.57" and their five year warranty.

The Zenith, Wildcat and Volt are not the Universe's newest superheroes, they are Code 3's newest concealable Hide-A-Blast LED lights which all install in a one inch hole and carry a five year warranty. Their Banshee Amplifier System is bound to clear traffic ahead and get the attention of texting, snoozing and boom-boom-boom drivers. It features a variety of tones, frequencies and options and the truest sounding air horn on the market. The Banshee can be retrofitted to an existing vehicle or installed in a new one in less than an hour.

Code 3® has introduced a complete lighting package for the 2015 Chevy Tahoe.

The Banshee can be installed in almost any vehicle in less than an hour.

Code 3's XCEL™ Siren has been designed to make it easier for your officers to operate while driving. Installation is a breeze, too, with convenient "plug and play" features and comes with their five year warranty. Code 3 has also introduced a complete bumper to bumper lighting package for the 2015 Chevy Tahoe.

Digital Ally, Inc.
(www.digitallyinc.com)

New from Digital Ally is the MicroVu™ camera system which is only four inches long by one inch tall, designed for easy installation and unobtrusive placement. It has 1080p video resolution, instant login and enhanced low light recording.

Federal Signal Corp.
(www.fedsig.com)

Federal Signal's newest lightbar is the Integrity® which has a distinct, modern shape. It could have been called the Chameleon because of its SpectraLux® multicolor LED technology which provides the ability for a single light source to change color while in operation. The LEDs can be programmed to flash between four colors – red,

New Vehicle-Specific Consoles
Gamber-Johnson has added to their vehicle-specific console product line to include:
· Chevrolet Caprice 2014-2015
· Chevrolet Tahoe/Silverado 2015
· Dodge Charger 2011-2014
· Ford Sedan PI 2012-2015
· Ford Utility PI 2012-2015
POLICE
INTERCEPTOR
CONSOLE SOLUTION
DEFINING RUGGED
EXCEPTIONAL ENGINEERING | ROCK SOLID | EXTENSIVE TESTING
GAMBER® JOHNSON
Very Well Connected™
For more information on vehicle-specific consoles, contact: 800-399-4779 | www.gamberjohnson.com

Circle 6056 for More Information

Federal Signal's Integrity® lightbar features SpectraLux® which allows a single light head to change color while in operation.

The ICOP PRO digital video recorder is available in two configurations.

blue, amber and white. The lightbars have a host of options and are literally a snap to service while still on your vehicle's rooftop, as the single dome snaps off, providing access to the ROC (Reliable Onboard Circuitry™) board.

Federal's new Valor® lightbar features one of the most distinctive shapes available today. A multicolor lightbar, the center is a forward facing V shape which provides 360° off-axis lighting for clearing intersections, while standing a mere two inches tall.

Safety Vision, LLC
(www.safetyvision.com)

The ICOP PRO digital video recorder uses a new monitor, the Power Control Monitor (PCM), which integrates a 4.3" screen, speaker and playback controls into a single unit, placing the entire device conveniently near the driver's seat. The PCM connects via one cable to a DVR enclosure which can install in any dashboard or console. It is available in two configurations – one using a removable one terabyte drive and another using a 128GB SD card. Both options utilize a mirror recording feature to back up captured video. Using the MCAM2 camera and the EXTREME Wireless Mic, current ICOP users can easily upgrade the DVR without having to purchase new accessories.

SoundOff Signal
(www.soundoffsignal.com)

SoundOff has developed a new interior package, the nFORCE® Traffic Controller, which is available in six, nine, 12 or 18 LED counts. Currently available in four or eight modules, a six module version is coming soon. An exterior version will be available in the future and both carry a five year warranty.

VizuCop
(www.vizucop.com)

The VizuCop 360° features a front facing, dual lens camera which eliminates the need for manual zooming for clear license plate capture; up to eight HD video and audio channels; and solid-state 256GB SATA hard drive or a 128GB SD card.

The VizuCop 360° system also features a patented replacement rearview mirror with a fully adjustable and easily accessible five inch color monitor, minimizing the overall footprint of the system and allowing convenient access to all camera views and GPS mapping technology for both the driver and ride-along officer.

With built-in 500 MHz LAN capability, the VizuCop 360° system can take advantage of the latest and most state-of-the-art wireless tools like MotoLinx LE™, the VizuCop video clip archiving manager. MotoLinx automatically transfers video of marked events wirelessly from connected police vehicles to the agency's dedicated on-site server for review.

"I see cars flying past my house every day!"
Sound Familiar? You know what he says, now find out what the evidence says with the...
JAMAR Radar Recorder.
Total Percentage of Enforceable Violations
LOW
HIGH
Posted Speed Limit: 35 mph
Enforcement Tolerance: 10 mph
Enforcement Limit: 46 mph & Up
Percentage Above Limit: 1.2%
Enforcement Rating: LOW
Now with Bluetooth wireless capability!
• Address Speeding Complaints
• Fast and Easy to Install
• Keeps Personnel Off Roads
• Speed and Volume Data
• Clear, Easy-to-Read Reports
• Reports Designed for the Public
• Covert 'Black Box' Collection
• Covert Surveillance via Bluetooth
• View Demo at www.jamartech.com
JAMAR Technologies, Inc.
sales@jamartech.com • www.jamartech.com
1-800-776-0940 • 1-215-361-2244
1500 Industry Road, Suite C
Hatfield, PA, USA 19440

Circle 6057 for More Information

WatchGuard's new VISTA™ HD Wearable Camera automatically links to their 4RE in-car video system.

WatchGuard Video
(www.watchguardvideo.com)

WatchGuard's new 4RE HD Panoramic in-car video system dramatically expands the video coverage in front of the patrol with the addition of a near 180° HD Panoramic Strip Camera. This additional coverage does not sacrifice any of the details captured by the primary HD camera, plus it does not increase the storage requirement for the majority of routine recordings.

INMATE TRANSPORT VANS

BY AMERICAN ALUMINUM ACCESSORIES, INC.

AMERICAN ALUMINUM
ACCESSORIES, INC.

Our transport Units are designed to be removed and re-installed many times.

Heavy duty smooth mill-finish aluminum allows for easy cleaning.

Front compartment adds secure separation and entry/exit.

Our All Aluminum Inmate Transport units are lighter in weight and more secure.

One, Two, and Three Compartment Inmate Transport Units are available for any full size Ford, GM or Dodge Sprinter Passenger or Cargo Van.

HERE'S WHY WE HAVE MORE TO OFFER...
WE INCLUDE THE FOLLOWING:

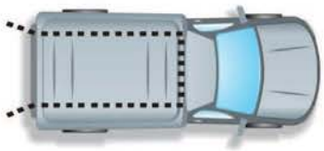
- 1, 2, and 3-Compartments available for Ford, Chevy & Dodge.
- All units are re-usable over the life of many vans.
- 6,000 pound impact locks on all doors with Camlocker T-Handle.
- Passenger Seatbelts .(2 SIZES)
- Interior LED protected lighting.
- Rear folding step and Side Step (if needed) & much more...

OPTIONAL:
Video Cameras, monitors, recorders, intercom, back up beepers, back up sensors, exterior lights, strobes, food traps in doors, auxiliary A/C & Heat System, etc. Installation.

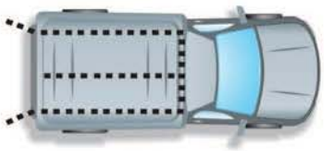
Pick up and delivery of vehicles can be arranged for additional fee.

POWDER COATING IS AVAILABLE

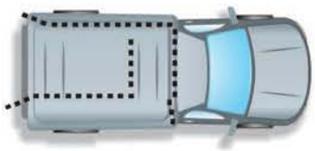
INMATE TRANSPORT UNIT EXTENDED & STANDARD LENGTH VAN FLOOR PLANS



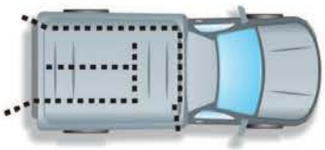
ONE (1) COMPARTMENT UNIT:
Model IT-1C (Standard Length)
Model IT-1CX (Extended Length)
One Rear Inmate Door Only. Front to Rear Dimensions: 114" or 96" Side to Side Dimensions: 56" Height 50"



TWO (2) COMPARTMENT UNIT:
Model IT-2C-F/B (Standard Length)
Model IT-2CX-F/B (Extended Length)
Two Rear Inmate Doors Only. Front to Rear Dimensions: 114" or 96" Side to Side Dimensions: 56" Height 50"



TWO (2) COMPARTMENT UNIT:
Model IT-2C-L/R (Standard Length)
Model IT-2CX-L/R (Extended Length)
One Rear & One Side Inmate Doors. Front Compartment Dimensions: 44" long Rear Compartment Dimensions: 70" or 52" longSide to Side Dimensions: 56" Height 50"



THREE (3) COMPARTMENT UNIT:
Model IT-3C (Standard Length)
Model IT-3CX (Extended Length)
Two Rear & One Side Inmate Doors. Front Compartment Dimensions: 44" long Each Rear Compartment Dimensions: 70" or 52" long. Height 50"

FEATURES:

- Unit Designed to Accommodate Factory Installed Rear Air or Auxiliary HVAC System.
- Modular design for future transfer from one van to another van of the same make and length.
- Built-in seating with Non-Skid-resistant covering over all seating area.
- High strength seatbelts installed. (48" and 60" long). 60" accommodates larger size prisoners.
- Emergency front exit window provided w/ every modular unit to be accessed from either side in case of emergency.
- The rear entry/exit modular unit door is approximately 1 1/4" thick (1" x 2" aluminum bar framework, with 2 each with .125 gauge smooth mill finish aluminum sheeting on each side).
- Doors include a Lexan covered security window/view-port that is approximately 21 1/2"W x 20"H and has a 6,000 pound "bursting strength" Slam latch with key lockable T-Handle actuators.
- There is NO ACCESS to any lock, handle, or opening/closing device from the inside of the modular unit.
- Overhead L.E.D. security-recessed interior compartment lighting is included and activated from the driver/ passenger area. (Console Box).
- All controls for the Inmate Container lights, A/C and Heat, fans, etc., are accessed from a control switch in the driver/passenger area. (Console Box). Console box pad-lockable for storage.
- Overhead (built-in) ductwork for rear factory A/C & Heat or for Auxiliary A/C and heat unit is included.
- The Front Bulkhead allows for First Aid and Fire Extinguisher Installation.
- Smooth interior for safety and sealed to prevent hiding of any contraband.
- Non-rusting aluminum containers allow less down-time for washing and disinfecting.
- Light weight for fuel Efficiency and vehicle longevity.
- 3-Year Warranty on the basic Modular Unit.
- 1-year warranty on interior LED lights.

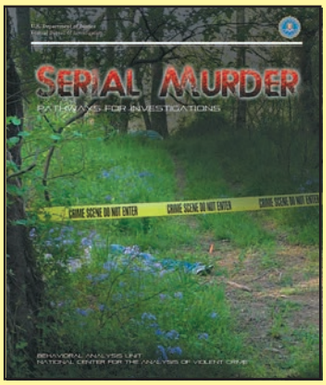
OPTIONAL: PLEASE CALL FOR QUOTE

- Video/Record Monitor System, black and white, with single camera, audio, recorder, monitor, black/white.
- Same as above, but upgraded to two (2) cameras, color.
- Auxiliary A/C and Heat unit (BTU cooling 32,000/CFM 630 and BTU heating 35,000/CFM 630, comes with digital control and thermostat. (Warranty 12 months or 12,000 Miles whichever comes first).
- Food traps on all modular units doors.
- Back up beepers; back up sensor, back up camera with LCD screen, LED rear loading light, strobe lights, etc.

Circle 6058 for More Information

CALL TODAY FOR MORE INFORMATION! 1-800-277-0869 | WWW.EZRIDERONLINE.COM

New Perspective on Serial Murder Investigations



The research project, "Serial Murder: Pathways for Investigations," provides empirical information based on actual cases to help law enforcement personnel working active, unsolved serial murder investigations.

The research focuses on how and where victims' bodies were discovered and what that says about the killers. The body disposal scenarios used by offenders were separated into four pathways: transported from the murder site and concealed; transported from the murder site and dumped; left "as is" at the murder site; and left at the murder site and concealed.

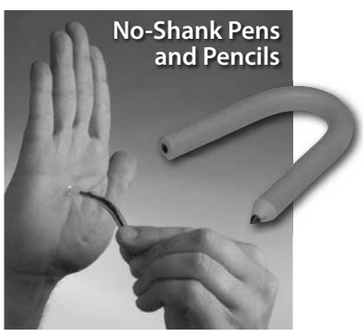
The reasons for focusing on body disposal scenarios, according to the study, include a number of factors:

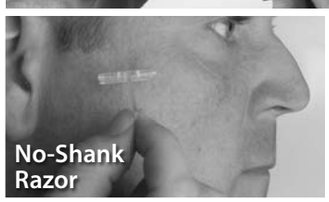
- The body disposal site is usually the initial scene law enforcement professionals are exposed to in their investigation.
- The manner and circumstances of the body disposal can lead to logical conclusions concerning the nature of the crime.
- The different body disposal scenarios can reflect the varied criminal experience levels of offenders.
- The manner of body disposal may show a potential relationship between the offender and the victim.

To download the study, go to **http://tinyurl.com/m6rfuca**.

Humane Restraint®

Offering Law Enforcement Professionals a Choice!





DuraMax Bed and Restraint Systems

CALL FOR A CATALOG TODAY!

912 Bethel Circle • Waunakee, WI 53597
800/ 356-7472 • FAX 608/ 849-6315
www.humanerestraint.com

Circle 6060 for More Information

Also new is the VISTA™ body worn video recorder which automatically links to WatchGuard's 4RE in-car video system. Some of its features include nine hours of continuous HD recording on a single charge; a fully submersible waterproof design; a 130° wide-angle field of view; and the transfer/charging base provides "dock and go" convenience.

Whelen's new Liberty™ II lightbar features improved optic design and technology.

Whelen Engineering Company, Inc.
(www.whelen.com)

New from Whelen Engineering is the Liberty™ II, the next generation Liberty lightbar. With a 30% increase in surface area and no gaps between lightheads, the new design allows for contiguous light and is one inch less in depth. Low profile mounting kits can be used on the sturdy aluminum base to keep the bar closer to the roof for a quiet ride and stealth look.

Now available for the Legacy® and Liberty II Super-LED® lightbars – and soon to be available on many additional products – are all new SAE Class 1 certified Smoked Lenses. Also new are housings which allow easy mounting of an M4 Super-LED warning lighthead in the factory fog light openings of a 2015 Chevy Tahoe.

BARS, MOUNTS AND CAGES

Hold on there, we're not talking about the drunk tank at the county lockup. We're talking about all the other stuff you need to make a vehicle roadworthy and duty ready.

This year we have been inundated with reports of small children left in hot cars; unfortunately, even some who perished. Recently, a report surfaced of a police dog which suffered a similar fate (also fatal). We can't do much about the children other than aggressive public awareness programs and swift trials and stiff sentences, but there is a solution which may save your four legged officers.

American Aluminum Accessories, Inc.
(www.ezrideronline.com)

American Aluminum Accessories has designed the ClimateGuard System to protect K-9s in extreme temperatures. Two sensors mounted in the dog's area are activated every time a key is inserted in the ignition and remain activated, whether the vehicle is idling or shut down (key in or out), until manually de-activated. It alerts the officer when the heat sensors approach a critical level by activating wigwags, triggering emergency lights and either texting or paging the officer. If the heat level becomes critical, the same emergency warnings continue, plus the rear windows roll down for ventilation and a rear cooling fan is activated. In addition, the system also honks the horn in a unique pattern every 15 seconds. An option is available which will also notify dispatch of the system's activation. This is a great idea in case the handler becomes disabled and a win-win for both your officers and their canine partners.

Datalux Mobile Computers
(www.datalux.com)

Datalux has introduced the TRU-PowerPack, a device which provides continuous power from start-up to shutdown of a vehicle in order to protect critical electronics. It is compatible with the Datalux Tracer and other vehicle peripherals requiring +12VDC input and provides stable output power during voltage sags and spikes.

Gamber-Johnson has introduced a new vehicle console box designed specifically for both the Chevrolet Tahoe and Silverado.

Gamber-Johnson, LLC
(www.gamberjohnson.com)

Gamber-Johnson recently announced a new docking station for the Getac® Windows® Tablet Computer, designated the TabCruzer® F110 Docking Station. It joins their growing line of Getac computer docking stations. It features bottom facing ports and a push and turn lock which makes docking and undocking easy. Gamber has also introduced vehicle specific consoles for the 2015 Chevrolet Tahoe and Silverado. In addition to computer mounts, they are adjustable and have multiple mounting holes, faceplates, plus cup holders and armrests.

Havis has a multitude of new products created for the new 2015 Tahoe, including K9 and prisoner transports, consoles, and more.

Havis, Inc.
(www.havis.com)

Havis has designed new consoles, K9 and prisoner transports, and other mounting products specifically for the 2015 Chevrolet Tahoe. They also offer passenger side mount packages, dash monitor mounts, a variety of trunk mounts, and K9 and prisoner transport units. These solutions provide their customers with a safe, comfortable and fully equipped mobile office.

Jotto Desk
(www.jottodesk.com)

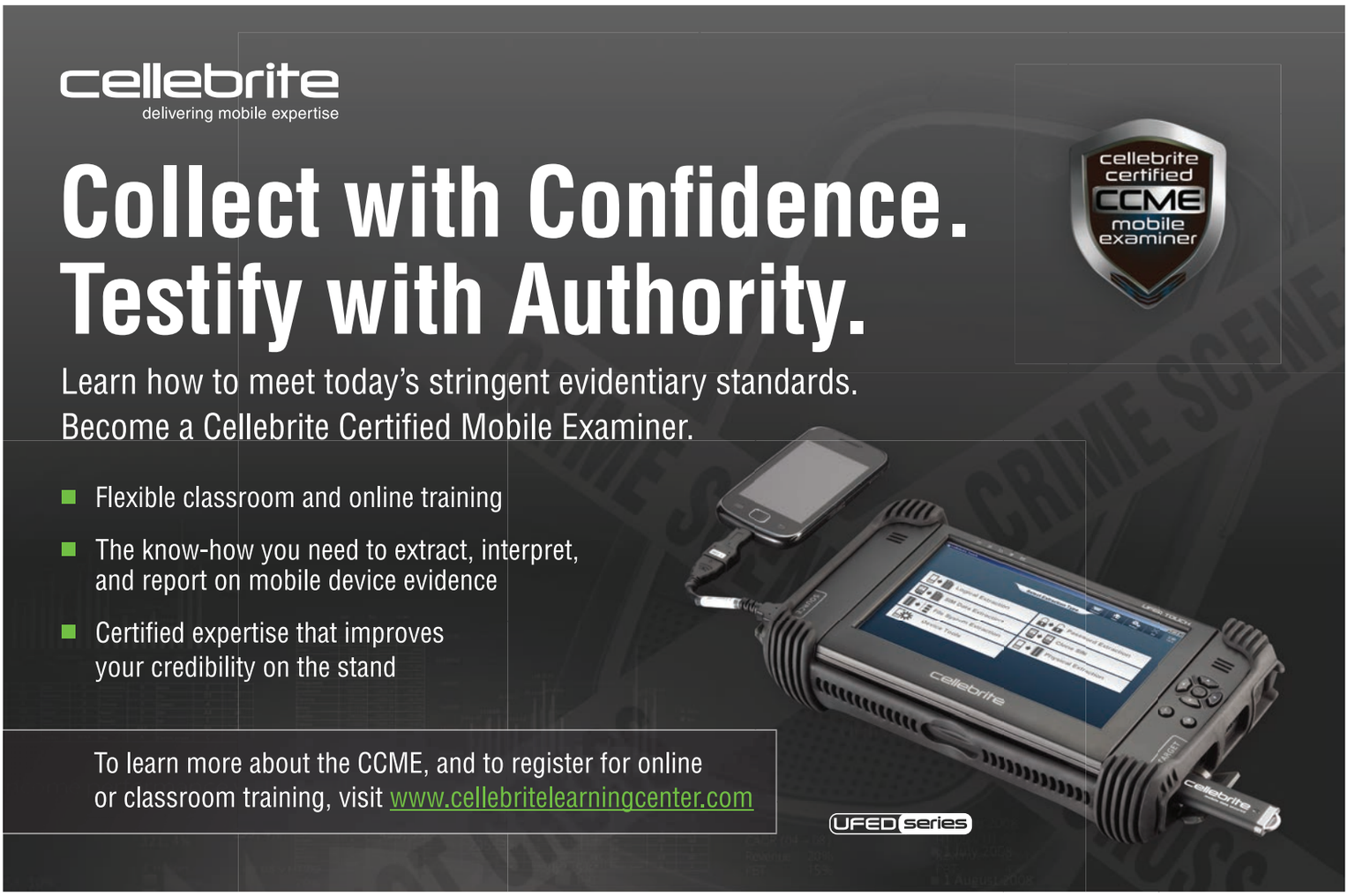
Jotto Desk has also developed a console for the 2015 Tahoe which provides six inches of faceplates for radio, communications and emergency equipment in the center of the OEM console. The Contour Console insert improves access to controls, creates a better position for glance over viewing and optimizes vehicle space.

Kustom Signals, Inc.
(www.kustomsignals.com)

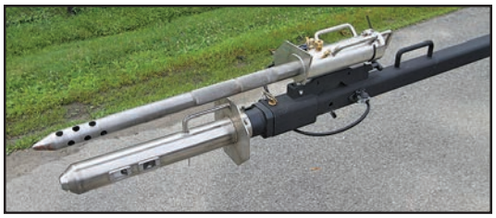
Kustom Signals will soon have a new optional controller for their G3 Vision System, called the *Anywhere* Monitor Controller (AMC). It was designed specifically for agencies which want the same features as their popular Mirror Monitor Controller in a package which can mount almost anywhere. They will be interchangeable with your existing systems.

Lenco Armored Vehicles
(www.lencoarmor.com)

Lenco has a couple of new tactical products they would like you to see. First, their Lenco Gas Injector Unit (GIU) is a multiuse tool designed specifically for the safe dispersal of chemical agents into homes, automobiles and other hardened


cellebrite
delivering mobile expertise
Collect with Confidence.
Testify with Authority.
cellebrite certified CCME mobile examiner
Learn how to meet today's stringent evidentiary standards.
Become a Cellebrite Certified Mobile Examiner.
Flexible classroom and online training
The know-how you need to extract, interpret, and report on mobile device evidence
Certified expertise that improves your credibility on the stand
To learn more about the CCME, and to register for online or classroom training, visit www.cellebritelearningcenter.com
UFED series

Circle 6061 for More Information



Lenco's upgraded Gas Injector Unit is used in conjunction with their BearCat vehicle.

structures. The newest model features user-friendly loading and has stronger penetration of brick and block structures.

Lenco's 4-Way RAM Camera provides tactical officers with the critical intelligence to make safe and sound tactical decisions. This device is named 4-Way because it provides black-and-white images from four directions simultaneously – the front and at three, six and nine o'clock, plus audio.

Pro-gard Products LLC
(www.pro-gard.com)

Pro-gard is the exclusive manufacturer and distributor of the VIPER™ Shield Enhanced Space Saver partition.This allows patrol officers to quickly protect themselves against unanticipated gunfire with the rapid deployment of a Level IIIA ballistic shield conveniently stowed on the back side of the vehicle's Prisoner Transport Partition.

RAM® Mounting Systems
(www.rammount.com)

RAM Mounting Solutions has introduced IntelliSkin™ with Global Docking System™ (GDS) for the Samsung GALAXY, a complete tablet docking, mounting and protecting system for your vehicles. It offers quick and easy one-handed operation for your officers.

Setina's new Automatic Firearm Vault (shown on the left) holds two M4-style weapons.

Setina Manufacturing Co., Inc.
(www.setina.com)

Setina is proudly celebrating 50 years of excellence. Current products include push bars (or what we call them locally – Bambi Guards) with optional LED perimeter lighting and wraparound headlight protection, prisoner compartments and seating, numerous partitions and rear door panels, as well as trunk trays and storage boxes. Setina's products are available for all popular law enforcement sedans and SUVs.

Setina's new Automatic Firearm Vault weapon containment system provides law enforcement with a superior solution for dual automatic weapon storage. This new Automatic Firearm Vault is secure, low profile and easily installed in a vehicle's rear cargo area. It is available with the choice of either a manual dead bolt lock or with an electronic lock with a manual key override. The heavy-duty lower slide out drawer is designed for ammunition and storage.

Sirchie®
(www.sirchie.com)

Fiberglass prisoner transports are now available for the 2015 Ford Transit Vans. These turnkey units have molded fiberglass interiors which eliminate the possibility of arrestees concealing weapons or contraband and are available in one, two or three compartment configurations. Several options are offered as well, including video observation systems, intercoms and air conditioning. The units are designated as the PTV11/S model.

Circle 6062 for More Information

Concealed Suspenders?
IT'S MAGIC!
See Us On YouTube "Back Defense Systems"
NOT REALLY!
It's the
BACK DEFENDER
No uniform modification required
Patented V-Shaped down members allows you to tuck in your shirt without cutting holes in it.
Officers who wear the Back Defender™ do not suffer from:
▪ Low back pain
▪ Hip pain
▪ Leg numbness/tingling
▪ Fatigue
Conforms to all uniform codes.
Made in USA
Check out the website:
www.backdefensesystems.com
817-313-9738 817-703-5241

Circle 6063 for More Information

Tuffy's new Tactical Security Lockbox does not require a separate padlock and can be released in seconds to transfer to another vehicle.

Tuffy Security Products
(www.tuffyproducts.com)

Tuffy has developed a Tactical Gear Security Drawer for the new Ford Police Interceptor Sedans which provides nine inches of space below the enclosure to access the spare tire. Their Tactical Security Box was designed to fit securely in the trunk of the Dodge Charger. It will secure shotguns, tactical rifles and other gear with a cable lock system. A combination push-button lock provides keyless entry, while gas struts ease opening and support while open.

The EliteXD Push Bumper is available for the 2015 Tahoe/Suburban and the 2014-15 Silverado.

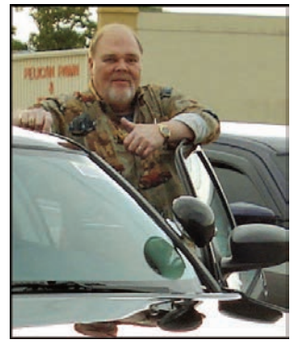
Westin Automotive
(www.westinpublicsafety.com)

Westin Automotive has introduced the EliteXD Push Bumper for Chevy's Tahoe, Suburban and Silverado. Made with heavy-duty 4-gauge steel uprights to absorb direct impact, they feature 2 3/4" wide rubber strips on the uprights and a removable full punch plate grille. Options include XD Wing Wraps and LED lighting mounts.

They have also introduced HDX Running Boards for full-size Chevy, Ford and GMC trucks which feature a diamond steel tread pattern to provide a textured step area; a one inch splashguard is integrated with the step surface to preserve the integrity of the metal.

That's All, Folks!

This concludes our annual transportation review. We realize this is a lot of information to digest at one sitting, but we hope we have armed you with the data you need to make the choices which will provide your agency with the equipment necessary to make your personnel's jobs safer and easier while they protect and serve.

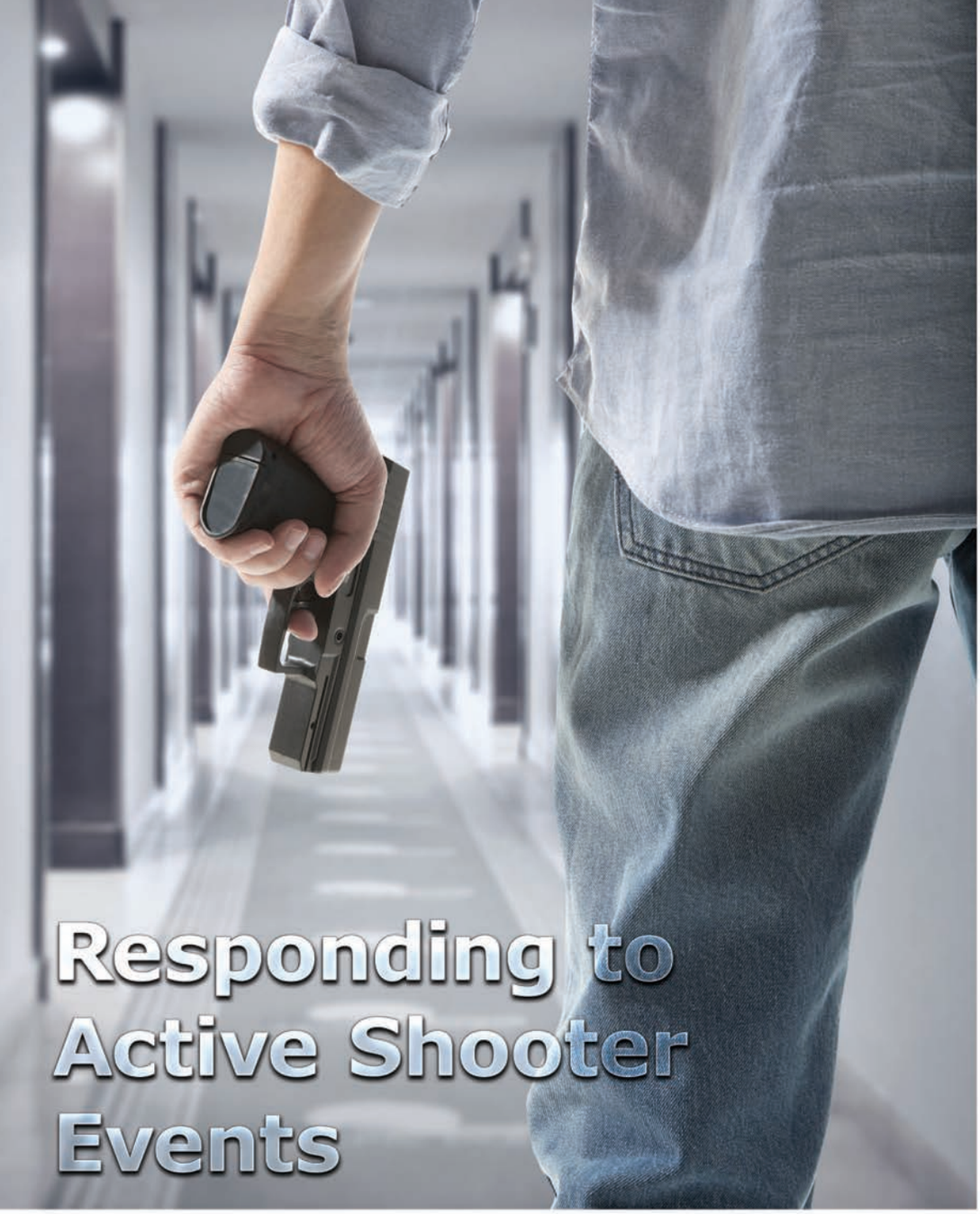


About the Author: Sergeant James G. Post always welcomes your comments, complaints and praise. He can be reached at kopkars@arkansas.net.

NYPD Officers Learn to Tweet

The NYPD is requiring some of its top police officers to take a class in Twitter use. As reported by the *New York Post*, a memo was sent to commanding officers following a series of incidents where posts were made on the top social network which were deemed controversial.

According to the *Post*, the course is designed to prevent embarrassing posts from being made by officers.



Responding to Active Shooter Events

Bill Siuru, PhD., PE

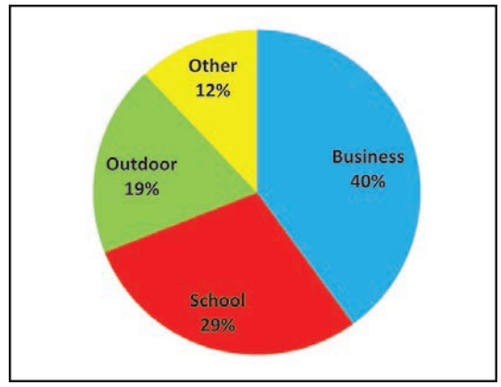
A new study aims to provide law enforcement professionals with information which will help to better prepare for, and respond to, these types of incidents.

Active Shooter Events (ASEs) can happen anytime and anywhere. Thus, every police department and police officer has to be ready to respond. Three researchers, J. Pete Blair, M. Hunter Martaindale, and Terry Nichols, investigated 110 ASEs occurring between 2000 and 2012. Information sources included reports from the investigating agencies, Supplemental Homicide Reports (SHRs) by the FBI and news stories. Their results, reported in *Active Shooter Events from 2000 to 2012* (**http://tinyrul.com/nkrgvy4**), provides valuable information for developing effective policies and procedures for handling ASEs.

By definition, an ASE involves one or more persons engaged in killing, or attempting to kill, multiple people in an area occupied by multiple unrelated individuals and at least one of the victims must be unrelated to the shooter. While many gang-related shootings meet the definition, they were excluded because gang-related shootings are not considered ASEs by law enforcement.

Individuals

Single shooters, who conducted all attacks between 2000 to 2012, did not fit a specific profile or demographic. Ninety-four percent were male and came from different racial and ethnic categories. The youngest was 13 and the oldest was 88. The shooter did not have any apparent connection, like a current or former student or employee, in 45% of the events. In 55% of the events, the shooter did have a connection with the attack location.



ASEs occur most frequently at businesses like stores, office buildings, factories and warehouses. Schools, both K-12 and institutions of higher education, were second. Other places included military bases and churches.

Of the cases which ended before the police arrived, 67% ended with attackers committing suicide or by leaving the scene. In the remaining cases, potential victims stopped the shooter, most commonly by physically subduing the attacker. In only three cases did they shoot the attacker. ASEs were still ongoing when law enforcement arrived in 51% of the cases. Of these, attackers stopped themselves when law enforcement arrived, most commonly by committing suicide, but, in six cases, they surrendered.

Officers used force 60% of the time when the attack was still ongoing. Usually, they shot the attacker, but, in nine cases, the attacker was subdued without a firearm. In eight cases, the attacker shot the responding officers. An active shooter call is among the most dangerous in law enforcement.

Weaponry

Shooters had multiple weapons in about one third of the attacks. In about 60% of the attacks, a pistol was the most powerful weapon. In about 25%, a rifle was used and, in eight percent, a shotgun was used. Thus, officers should wear body armor equipped with ballistic plates which protect against rifle fire. Most of the rifle rounds used can be stopped with Level III plates, but some require Level IV plates. Improvised Explosive Devices (IEDs) were involved in three percent of the cases and body armor was worn by shooters in five percent of the cases.

Some agencies recommend ballistic shields for increased protection. Since most shields are designed to be used with pistols, it means giving up the ballistic advantage of a rifle. Also, most current man portable shields are not rated to stop rifle fire. In about a quarter of ASEs, a shield would not provide additional protection against a shooter with a rifle.

The data clearly supports equipping officers with patrol rifles. Many ASEs involve open spaces or long hallways with distances beyond the ability to engage a suspect with a pistol. Also, officers may have to place precision fire on a suspect while avoiding hitting victims.

Initially, officers were instructed to form teams

Another newly released study by the FBI, *A Study of Active Shooter Incidents in the United States Between 2000 and 2013*, contains a wealth of information covering 160 incidents and can be downloaded at **http://tinyurl.com/kleccsf**.

The Domestic Security Alliance Council (DSAC) Web site includes a page which provides extensive information covering active shooter resources. These are available to help supervisors and administrators incorporate active shooter strategies and policy.

To view this page, go to **www.dsac.gov/Pages/ActiveShooter.html**.

before entering a structure. This takes time and ASEs occur at phenomenal speed. Many departments now authorize solo entry. Solo officer entries provide faster response, but also increase the danger to the officer.

Officers have to do more than just get to the scene quickly, so they must learn the tactical skills needed to successfully resolve these events. Because about one in five events occur outdoors, officers must be trained to operate in all environments. Close quarter indoor tactics are not suitable outdoors and using them outdoors can be fatal.

Confusion

Confusion is a characteristic of an ASE. Responders are faced with conflicting descriptions of the shooter, phoned into 911 or from witnesses. Can officers be sure the shooter they shot or subdued is the only one? Often, people continue to call in reports of people with guns after the shooter has been dealt with. Officers responding in plain clothes or nontraditional uniforms can be mistaken for attackers. Regardless, officers on scene often must engage in a systematic search to confirm that there is not another shooter. In a large attack site, this can take hours.

Officers also have to be ready to give medical care because most EMS personnel will not enter a scene until it is declared "secure" which can take hours. National organizations endorse the Rescue Task Force (RTF) concept. Here, EMS enter attack sites to stabilize and rapidly remove the injured while a ballistic or explosive threat may still exist. They wear body armor and are provided security by law enforcement. While RTF represents a significant improvement in EMS response to ASEs, it undoubtedly will take substantial time to implement nationwide.

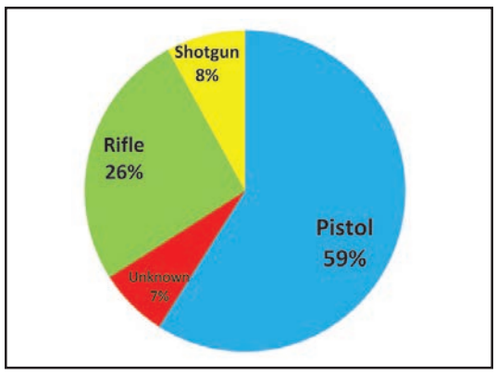
Medical Care

Even with faster EMS response, responding officers will face situations where they can save the lives of victims by quickly applying proper hemorrhage control techniques after the immediate threat has been dealt with. Additionally, in a mass casualty event, the wounded can overwhelm EMS personnel. The researchers recommend that all law enforcement officers receive some medical training so they may be able to aid the injured and save lives.

Circle 6067 for More Information

ACCU-SHOT
ROCK SOLID SUPPORT & PRECISION AJUSTABILITY REQUIRED BY THE 21ST CENTURY MARKSMAN.
ATLAS BIPOD PATENTED
To find out more about the original patented ACCU-SHOT PRECISION MONOPODS and patented ATLAS PRECISION BIPOD visit ACCU-SHOT.COM
B&T Industries L.L.C. • PO Box 771071 • Wichita, KS 67277 • 316.721.3222

Circle 6066 for More Information



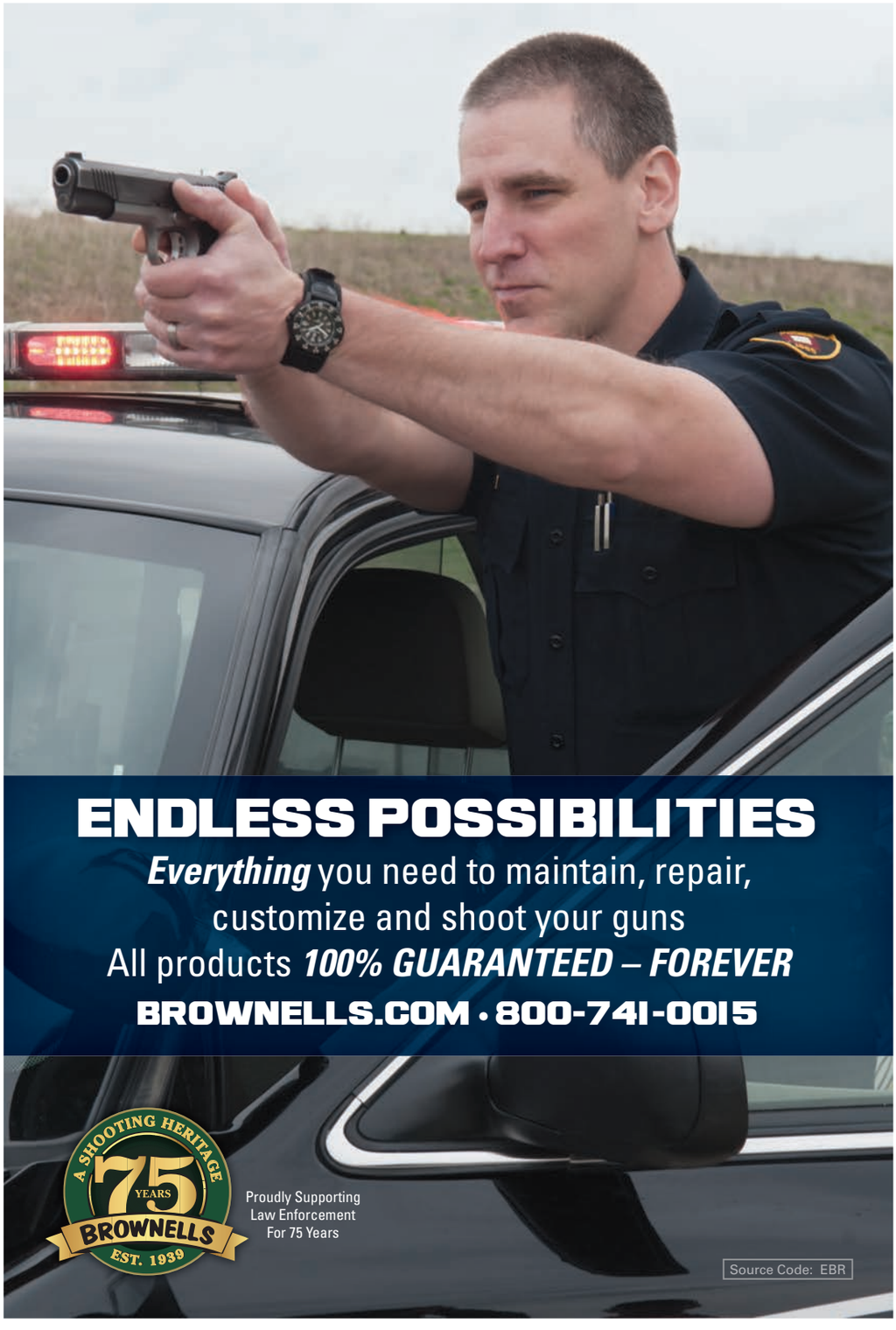
Weapons used in Active Shooter Events

Proper medical equipment is needed and numerous wound care kits are commercially available which can be attached to a plate carrier. Also, it is recommended that all officers should carry tourniquets to stop bleeding. In numerous cases, officers have saved the lives of other officers and civilians by applying a tourniquet.

Finally, for the 51 cases which included time data, the median response time was three minutes which is fast by law enforcement standards. However, by then, shooters had inflicted devastating damage. This adds to the growing evidence that citizens must have insight on how to respond. The FBI and the DHS's Federal Emergency Management

Agency recommend teaching the "Run. Hide. Fight®" technique to protect themselves and others around them. Police departments and the communities should work together to implement this training. P&SN

About the Author: Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. His military assignments included teaching engineering at West Point, commander of the research laboratory at the U.S. Air Force Academy and Director of Engineering at Wright-Patterson AFB. For the past 35 years, he has been writing about automotive, aviation and technology subjects.



Circle 6068 for More Information

PREPARE. PREVENT.
PROTECT.
BECAUSE YOUR FIREARM HAS
TO BE READY WHEN YOU ARE.
MADE IN USA
CLP
BOLTLUBE
• Provides lubrication
• Reduces friction, wear, & carbon build-up
• Fast, easy clean-up
• Stays where you put it
• Does not gum up mechanisms
• Suspends direct gas residue
• Flows when cold; viscous when hot
BORE CLEANER
& CONDITIONER
• Soaks into the pores for ideal cleaning and conditioning of gun bores, barrels, actions and contact surfaces
• Reduces build-up of combustion by-products, lead, and copper, preventing bore fouling
BUY NOW!
David McDermott, Nat'l Sales Manager
c 980.721.5897, dmcdermott@zmax.com
www.zMAX.com

Circle 6069 for More Information

The Tactical Uses of "Drones" in Law Enforcement

Photo courtesy of Draganfly Innovations Inc.

Rebecca Kanable

What's a UAS? Is a drone a UAS? Can a UAS be used in law enforcement? What are the legalities? Unmanned Aerial Systems (UASs) raise many questions.

The Center for the Study of the Drone at Bard College addresses many questions in its recently released online and print publication, titled *The Drone Primer: A Compendium of the Key Issues*. The free publication is a comprehensive and concise handbook covering fundamental themes, questions and facts about drones in technology, history, law, strategy and culture. To view the report, go to **http://dronecenter.bard.edu/publication/the-drone-primer/**.

When the Center for the Study of the Drone talks about drones, it's talking about unmanned vehicles which travel by air, land or sea. Researchers at the center started to look closely into the issue of drones about two years ago and found a lack of straightforward unbiased reporting. Dan Gettinger, Codirector of the Center for the Study of the Drone at Bard College, said the discussion at that time was very much dominated by the policy of targeted killings, the use of drones for strikes in Yemen, Somalia and Pakistan. The focus was military legal issues.

At the same time, the technology was rapidly evolving. Gettinger said, "We wanted to broaden the conversation to include different perspectives and different understandings of the technology beyond the military applications."

Before the technology is embraced in law enforcement, Gettinger said that parameters for the integration of the technology into law enforcement operations should be considered.

This SWAT team has incorporated a UAS into its training scenario.

What Is a UAS?

A UAS by any other name may still be a UAS, an unmanned aircraft guided by a remote control or a computer. "ROA" (Remotely Operated Aircraft) and "UAV" (Unmanned Aerial Vehicle) were terms previously used to identify unmanned aircraft. To some, "drone" is an antiquated term. As noted previously, to others, including those at Bard College, it's a word to describe unmanned systems on land, air or sea. Currently, the FAA and most of the international community uses the term "UAS." The "system" includes the unit which flies and the monitor.

Today's UASs are not the same as tomorrow's. "I think there is a perception of a drone being completely autonomous; a robot acting without intervention," Gettinger said. "We try to differentiate from the systems of today which are remote controlled and the systems which are being developed for tomorrow."

UASs are also not the same as manned aircraft, he continued. "There's a sense that the laws which were applied to aircraft can be applied also to drones and I think that can't be true," Gettinger said. "They're different technologies and drones have capabilities which manned aircraft don't have. The laws created in the 1980s for law enforcement which apply to aircraft have to be rethought to accommodate the growth of unmanned systems."

Legalities

The FAA "allow(s) a government public safety agency to operate unmanned aircraft weighing 4.4 pounds or less" under certain restrictions. A 2012 reauthorization bill specified that a UAS must be flown within the line of sight of the operator; less than 400 feet above the ground; during daylight conditions; inside Class G (uncontrolled) airspace; and more than five miles from any airport or other location with aviation activities.

Prior to the congressional action, the FAA and the Justice Department had been working on an agreement to streamline the Certificate of Waiver

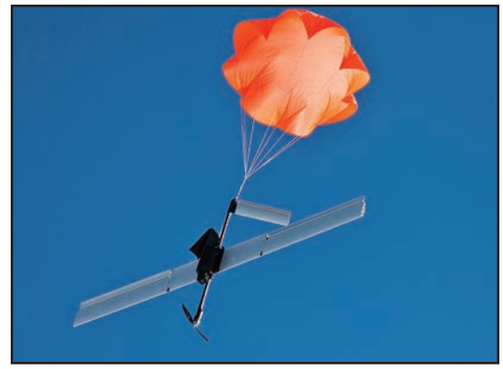
or Authorization (COA) process for law enforcement – an agreement which also meets the mandate. Initially, law enforcement organizations receive a COA for training and performance evaluation. When the organization has shown proficiency in flying its UAS, it receives an operational COA. The agreement expands the allowable UAS weight up to 25 pounds (see **www.faa.gov/news/fact_sheets/news_story.cfm?newsId=14153**). In 2012, the FAA issued 257 COAs; last year, 545 COAs were issued.

To help safely integrate UASs into the national airspace over the next several years, the FAA is working with six test sites.

States may also have UAS legislation. In 2013, 43 states introduced 130 bills and resolutions addressing UAS issues. At the end of 2013, 13 states had enacted 16 new laws and 11 states had adopted 16 resolutions (see **www.ncsl.org**).

Airframes

Association for Unmanned Vehicle Systems International (AUVSI) board member Ben Miller has observed that manufacturers are focusing less on development and more on producing systems



The Falcon UAV weighs about nine pounds; is launched by hand for takeoff; and uses a brightly colored parachute when landing.

which can be sold at a lower price.

What's available today?

Miller describes UASs by dividing them into two airframe categories: multicopters (not helicopters) and fixed wing aircraft.

Miller is also Quartermaster and Unmanned Aircraft Program Manager for the Mesa County Sheriff's Office in Colorado. The Mesa County Sheriff's Office uses a Draganflyer X4-ES from Draganfly Innovations, a quad with four motors and four propellers. (The sheriff's office also has a Draganflyer X6.) A multicopter has vertical takeoff and landing and hover capabilities which, for aerial imaging of crime scenes, traffic crashes or tactical operations, Miller finds very useful. The downside is that taking off vertically and hovering require a lot of power and energy, so the multicopter can only fly about 25 minutes at a time, he said.

For missions which require a longer flight time, the Mesa County Sheriff's Office has fixed wing aircraft (a Falcon UAV and a Trimble® UX5) which look like an airplane. There's one motor on the front. It uses less energy and the wing creates lift as the aircraft moves forward. The fixed wing aircraft can fly for almost two hours. The longer flight time, Miller said, is good for search and rescue and wildfire monitoring. The disadvantage of a fixed wing is that it needs more space to launch and recover.

Tactical Versus Crime Scene

The Mesa County Sheriff's Office has five years of hard data collected from more than 85 missions and 400 flight hours (including training). Most of the missions have involved crime scenes. "It's really what statistically occurs more," Miller said, noting that the times the crime scene team versus the SWAT team goes out is about ten to one.

The value for UASs, he sees, is in the crime scene images – not only the aerial photography, but in recreating scenes using orthomosaic maps which allow accurate measurements to within millimeters. The maps can be used to create 3-D models or animations. The Mesa County Sheriff's Office also uses its Draganflyer X4-ES for search and rescue missions and accident scene photography.

Community Education

Prior to flying, Mesa County devoted a lot of time to community education. From a public trust perspective, Miller said, "If we're going to be 100 feet over somebody's backyard for the purposes

FORCIBLE ENTRY TOOLS
FROM FIRE HOOKS UNLIMITED, INC.
HYDRA RAM
USED BY ONE FIRE COMPANY TO FORCE 109 DOORS AFTER THE FIRST EXPLOSION AT THE WORLD TRADE CENTER IN 1993
THE FIRST AND ONLY ONE-PIECE INTEGRATED, PRESSURIZED HYDRAULIC FORCIBLE ENTRY TOOL
Truly a one man operation.
Weighs only 11 lbs.
Full Extension in Only 7 Pumps.
Other Spreaders Require Up To 30 Pumps.
The Pro-Bar – A 30 inch Halligan-type forcible entry tool. One piece construction. Length: 30" Weight: 8.5 lbs., Ship. wt. 10 lbs. $225.00
Li'L Pro-Bar – Type "A" lockpuller on adz and gas shut off key on fork. Length: 12", Weight: 2 lbs., Ship. wt. 3 lbs. $65.00
Mini Pro-Bar – Diamond knurled grip, type "A" lockpuller on adz, and gas shut off on fork. Length: 20", Weight: 3 lbs., Ship. wt. 4 lbs. $80.00
The KAYO With the 1–2 Punch – One Man or Two
THE HIGHEST KINETIC IMPACT OF ANY RAM ON THE MARKET
Weight: 40+ lbs. of long lasting epoxy/steel construction. Only 30 inches long with two forward handles and one rear, but enough for the second man to hold. Exclusive Celtex shock absorbing grips.
30,000 LBS. OF FORCE
E-Z to stow, E-Z to carry, E-Z to use..$300.00
Also available: one man battering ram – $250.00
CALL FOR FREE CATALOG OF ALL OUR ENTRY TOOLS
FIRE HOOKS UNLIMITED, INC.
1827 Old Mill Road, Wall, NJ 07719
PHONE: (732) 280-7737
FAX: (732) 280-7792
www.firehooksunlimited.net
Circle 6071 for More Information

AEROSOL SUBJECT CONTROL SPRAYS
The last shot has the same range and effectiveness as the first shot!
Proven Formulas
Multiple Shots
Multiple Assailants
Works in Cold Weather
No Batteries
No Wires
Cheap to Operate
Area Fogging to Deny Access
Aerko International
www.aerko.com
516 NE 34th Street
Fort Lauderdale,FL 33334
800.565.8475 Voice 954.565.8499 Fax
Circle 6072 for More Information

Screenshot from 7-11-2014: Indianapolis Metropolitan Police Officer Ron Shelnutt used a UAS to create a tribute to IMPD Officer Perry Renn, whose end of watch was July 5, 2014.

of investigation, we're going to get a warrant." A judge, in turn, might say they don't need one, but Miller says, "We don't want to be the agency that creates the case law."

Miller said that agencies like the Mesa County Sheriff's Office which have the ability to record the video should do so. Storing and keeping images, however, is another matter. "At the end of the day, we have it; we go through it; and, if it hasn't been identified as evidence and it's of a private nature, we delete it," he continued. "If we have video of a crime scene, we're going to keep it because photography of the crime scene is evidence."

High Demand

Police officers whose agencies don't yet have a UAS also see the value. Officer Ron Shelnutt with the Indianapolis Metropolitan Police Department K9 Unit uses a DJI Phantom as a hobby. As someone who has interest in videography, he said that videos he saw being created with a UAS took his breath away. Being 85 feet in the air provided not only a different view, but a high-tech view using 1080p high-definition and three axis stabilized gimbal controls.

Shelnutt showed video he had taken to the police department's head photographer. He, too, was impressed. When the head photographer was unavailable, he asked Shelnutt to record a funeral procession for an officer who had died in the line of duty. Shelnutt videoed the procession and made a respectful tribute using nonlinear video editing in Final Cut Pro X. The video can be seen at **www.youtube.com/watch?v=GTWoIOyc7Vw**.

Benefits of Unmanned Systems in Law Enforcement

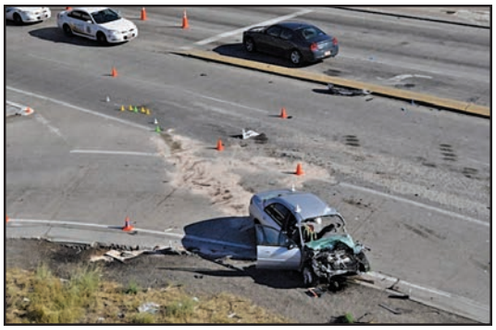
1. Keeping public safety officers safe: Unmanned systems can minimize the risks they face, while helping them to act faster and with the best information available. Unmanned systems are designed to do dangerous and difficult tasks while keeping the user out of harm's way.

2. Aiding search and rescue: Unmanned systems have the potential to survey large areas for a missing child, acres of land consumed by wildfires or vast expanses of water where a boat might be adrift.

3. Responding to emergencies: Unmanned systems provide public safety officers with a tool to safely respond to natural disasters and other emergencies.

4. Saving the government and taxpayers money: Each year, our nation's state and local governments spend millions of dollars on search and rescue, disaster preparedness, law enforcement, fire prevention and other critical services. Unmanned systems allow those agencies to accomplish those same tasks more efficiently, saving time, taxpayer dollars and lives in the process.

*Source: Association for Unmanned Vehicle Systems International



A UAS can be used to document a traffic accident on a busy highway, reducing the amount of time law enforcement officers spend roadside in close proximity to moving traffic.

Shelnutt predicts the use of drones in law enforcement will increase dramatically. Already, he's thinking of other ways he could use a drone at work. After searching a building with his K9 partner, they couldn't find the suspects. Thinking the suspects might be hiding on the roof, they called a fire department to bring a ladder out. Instead of the ladder, they could have used a UAS like the one he has with real-time downlinking video and telemetry. Shelnutt likes being able to see in real time what's going on and doesn't want to have to land the drone, download the video and then look at it.

The Sky's the Limit

As UASs are taking off, they're doing all kinds of things – day and night. In September 2014, the Grand Forks County Sheriff's Department in North Dakota deployed a UAS at night to help catch four criminals who had fled during a traffic stop. The Grand Forks Sheriff's Department Unmanned Aircraft Systems Unit is a collaboration between the sheriff's department, the University of North Dakota and two manufacturers (AeroVironment Inc. and Draganfly Innovations Inc.). The unit responds to five types of missions: searching for serious crime suspects; disaster assessments; crime and traffic crash scene documentation; and vehicular traffic monitoring at major events. Flights are conducted within a limited defined incident perimeter maintained by law enforcement. The unmanned aircraft are not used for routine patrol.

On its Web site, Homeland Surveillance and Electronics (HSE), LLC, a provider of UASs and surveillance equipment for law enforcement, suggests legislation should specifically state that a UAV cannot be used for general surveillance except when necessary for the public safety. HSE says that following the footsteps and the guidelines set forth by the International Association of Chiefs of Police (IACP) is a step in the right direction. HSE provides a link to the guidelines (**www.hse-uav.com/international_association_of_chiefs_of_police.htm**).

HSE President Dale King, a retired officer and a 27 year veteran of the Illinois State Police, concludes that most of the benefits of UASs in law enforcement relate to saving lives or saving time or both. UASs which provide a better – and safer - vantage point can be equipped with sensors to sense heat, chemicals or gases, said Dave Sanders, HSE's VP of Operations.

When it comes to UAS applications, it seems the sky is the limit – as long as those applications are legal.

About the Author: Rebecca Kanable is a freelance writer specializing in law enforcement topics. She can be reached at kanable@charter.net.

Web Sites for More Information

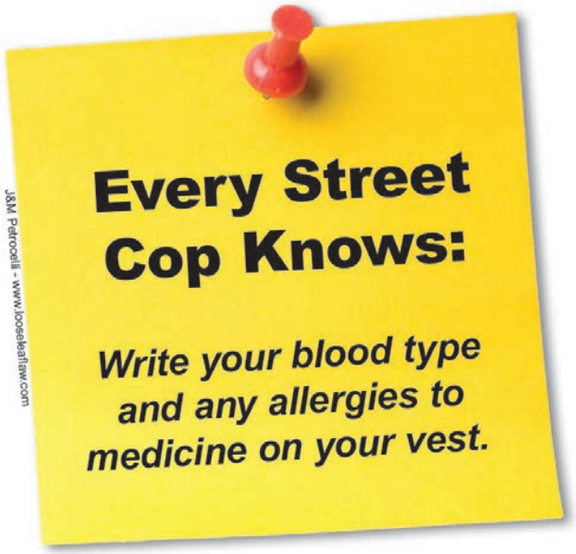
- FAA – **http://www.faa.gov/uas/public_operations/**
- Mesa County Sheriff's Office FAQ – **http://sheriff.mesacounty.us/uav/**
- NIJ – **http://nij.gov/topics/law-enforcement/operations/aviation/Pages/types-of-aircraft.aspx#suas**
- Association for Unmanned Vehicle Systems International (AUVSI) – **http://www.auvsi.org/Home/**
- Airborne Law Enforcement Association – **www.alea.org**

Circle 6075 for More Information

Why the "Perfect Heist" Succeeds

Bill Siuru, PhD., PE

A new study of high value heists explores the meticulousness and audacity employed by criminals from around the world.


Every Street Cop Knows:
Write your blood type and any allergies to medicine on your vest.
J&M Petrocelli - www.looseleaflaw.com

Many of us have enjoyed watching the Rat Pack in *Ocean's Eleven* conspire to rob five Las Vegas casinos in one night or schemers in *The Italian Job* planning to steal a gold shipment from the streets of Turin by creating a traffic jam. While heists make intriguing plots for movies and books, researchers at the Sandia National Laboratories found much can be learned by analyzing the planning and execution of the "perfect heists" of the past four decades. Sandia's mission includes international, homeland and nuclear security.

New Report

The Sandia researchers chose 23 famous heists based on the value of the stolen assets, innovation and complexity. Their findings, published in the 100 plus page report, *The Perfect Heist: Recipes from Around the World* (**http://tinyurl.com/pft8g4p**), are not only an interesting read, but provide important lessons for security professionals charged with guarding high value assets.

The analysis focused on seven areas: Defeated Security Measures and Devices; Deception Methods; Timing and Target Selection; Weapons Employed; Resources and Risk Acceptance; Insiders; and Failures and Mistakes. Incidentally, only five heists failed. Crimes were distributed into classes such as nonviolent (Stealth Raid and Walk Away) and violent (Smash and Grab; Subdue and Seize; Deceive, Subdue, and Seize; and Tiger Kidnapping [an event which is preceded by a kidnapping, typically of an individual with access and his family, coercing a person with access the thieves need to act as an insider]).

These criminals were typically 30- to 39-year-old men (no women) and experienced career criminals. On scene criminal teams typically consisted of two to eight accomplices, usually perpetrating the robbery as a single team, although use of multiple subteams is not uncommon. Team members commonly have specialized roles in preparing for, or executing, the heist. Use of weapons is typical, but, in many cases, not required for success. No weapons were involved in four of the top five heists in terms of value.

Västberga Helicopter Heist

Security camera footage of the helicopter on the roof of the G4S Cash Depot

At 5:15 a.m. on September 23, 2009, four thieves landed a stolen Bell 206 Jet Ranger helicopter on the roof of the G4S Cash Depot in Västberga in southern Stockholm, Sweden. Breaking into the depot through a large pyramid shaped skylight, the thieves descended via custom length ladders to the depot's counting room. Breaking through the door using custom-fit explosives, the thieves opened the depot's cash cages with the assistance of a circulating saw. Twenty minutes after they landed, the thieves ascended to the roof and took off with $6.1 million (FY12) in cash. Thanks to a tip-off from the Serbian foreign ministry, Swedish police had been expecting a helicopter assault on a large cash depot in September, but they were not expecting that the thieves would actively hinder a police response by spreading caltrops across roads near the depot and placing packages resembling bombs outside the police heliport.

Trickery

At least one form of deception was used in 21 of the heists, ranging from impersonating law enforcement to decoy vehicles to concealed surveillance equipment. Thieves frequently identify and exploit vulnerabilities which allow them to avoid, rather than engage, a well equipped security force response. In the 1990 Isabella Stewart Gardner Museum Art Heist in Boston, the bad guys posed as police officers to deceive and subdue museum guards.

Insiders – willing, unwitting and coerced – played a role in the majority of cases. Thieves may plant themselves as insiders, typically as customers or tenants of the organizations they intend to rob.

They occasionally recruit an insider from the ranks of the organization; for example, an employee who sees an opportunity for financial gain, or who even unwittingly provides critical information. The Antwerp Diamond Center's building manager provided blueprints to the heist mastermind, thinking he was just another tenant.

By far the most common is the coerced insider who unwillingly assists in the crime upon threat to his own life or the lives of his family members. In the 2006 Securitas Cash Depot Heist, the robbers abducted the manager, his wife and their child to force him to let them into the depot and provide key details about its security.

Time

Patience was a common ingredient. Given the enormous payoffs, thieves devote substantial time and resources to planning – up to two years and hundreds of thousands of dollars, if necessary. Thieves are thorough and innovative in developing methods to defeat security systems. These are usually simple, but effective, against vulnerabilities

identified in advance of the heist. One very low-tech method was the use of hair spray to disable infrared sensors. In most, multiple security measures were defeated.

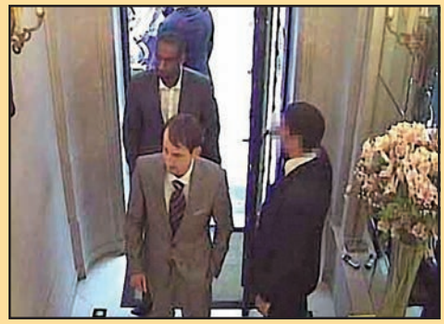
Rarely do these innovations require or involve the use of advanced high technology – but not always. An example of the latter was the 2009 Västberga Helicopter Heist in Sweden where the thieves descended from a helicopter into a cash depot by smashing through a skylight.

Criminals took a substantial risk both in terms of their lives and possible long prison sentences. However, the thieves' acceptance of risk was frequently a carefully calculated and rational decision. For many high value targets, the risk of both of these events can be quite high if an attack is executed with no reconnaissance or planning; however, in most cases, the thieves planned for months prior to the heist. In doing so, they made reconnaissance and practice runs; frequently recruited or planted insiders; and learned what security measures were in place. Through these actions, the thieves reduced their risks substantially. Also, to some, millions of dollars was worth a few years behind bars.

The bottom line: Motivated criminals can find ways to overcome every obstacle between them and their targets for the "perfect heist."

About the Author: Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. His military assignments included teaching engineering at West Point, commander of the research laboratory at the U.S. Air Force Academy and Director of Engineering at Wright-Patterson AFB. For the past 35 years, he has been writing about automotive, aviation and technology subjects.

Mayfair Graff Diamonds Heist



CCTV image of thieves being let into Graff Diamonds

At 4:40 p.m. on Thursday, August 6, 2009, two men dressed in suits and wearing latex disguises to appear older were let into the high-end Graff Diamonds shop in London. Producing concealed handguns, the men threatened the staff and, within two minutes, left with $68.9 million (FY12) in diamonds and other jewelry – as well as a hostage. Firing warning shots prior to releasing the hostage, the thieves made an initial getaway in a blue BMW fitted with false number plates. The BMW then crashed into a taxicab and the jewelry bag was transferred to a man on an orange motorbike. The thieves then switched cars to a waiting silver Mercedes, followed by a second switch to a black vehicle. The first arrests for the crime were not made until nearly two weeks later.

DURABLE
LIGHTWEIGHT
AMAZINGLY BRIGHT
Solutions for Patrolmen to Corrections. Trusted by Thousands of LEO's just like YOU.
The PowerTac E5 is truly an ultimate lighting device! Packing five brightness levels including a tactical strobe, a 240+ meter throw and an impressive 1.5 hr burn time at the full 950 Lumens. The E5 also has a rechargeable option and is available in rifle mount option (includes remote pressure switch and offset mount).
FL1 STANDARD
950 LUMENS
NO HASSLE
LIFETIME WARRANTY
POWERTAC
Law Enforcement and Military Grade Flashlights
NO HASSLE Lifetime Warranty
Use Code: PSN0708 for LE Discount
Large orders please call
Phone: 845-649-3802 • Sales@powertaclights.com
www.PowerTacLights.com

Circle 6079 for More Information

Apple® Committed to Customer Privacy

Apple says its commitment to customer privacy doesn't stop because of a government information request.

"Government information requests are a consequence of doing business in the Digital Age," says Apple.com. "We believe in being as transparent as the law allows about what information is requested from us. In addition, Apple says it has never worked with any government agency from any country to create a "back door" in any of its products or services. Apple also says it has never allowed any government access to its servers - and never will.

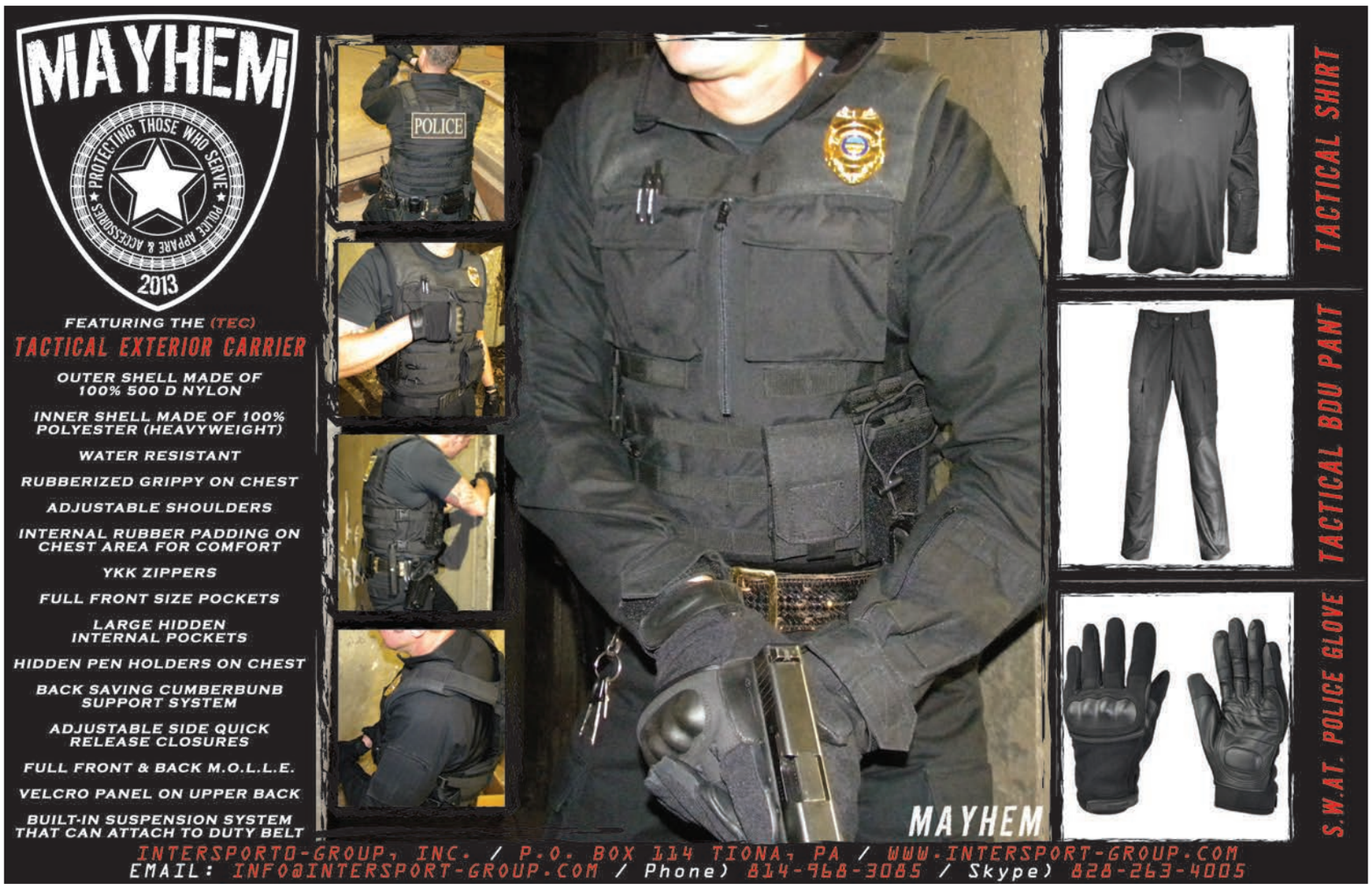
The most common requests Apple receives for information come from law enforcement in the form of either a "Device Request" or an "Account Request." "Our legal team carefully reviews each request, ensuring it is accompanied by valid legal process," the Apple Web site says. "All content requests require a search warrant. If we are legally compelled to divulge any information and it is not counterproductive to the facts of the case, we provide notice to the customer when allowed and deliver the narrowest set of information possible in response. National security-related requests are not considered Device Requests or Account Requests and are reported in a separate category altogether."

On devices running iOS 8, personal data such as photos, messages (including attachments), E-mail, contacts, call history, iTunes® content, notes, and reminders is placed under the protection of a passcode. Unlike its competitors, Apple cannot bypass your passcode and therefore cannot access this data. "So, it's not technically feasible for us to respond to government warrants for the extraction of this data from devices in their possession running iOS 8," Apple says.

Device Requests – 93% are from law enforcement working on behalf of a customer.

Account Requests – 7% are from law enforcement seeking customer account information.

Read Apple's guidelines for law enforcement requests via the Apple Web site at **http://www.apple.com/privacy/government-information-requests/**.


MAYHEM
PROTECTING THOSE WHO SERVE
POLICE APPAREL & ACCESSORIES
2013
FEATURING THE (TEC)
TACTICAL EXTERIOR CARRIER
OUTER SHELL MADE OF 100% 500 D NYLON
INNER SHELL MADE OF 100% POLYESTER (HEAVYWEIGHT)
WATER RESISTANT
RUBBERIZED GRIPPY ON CHEST
ADJUSTABLE SHOULDERS
INTERNAL RUBBER PADDING ON CHEST AREA FOR COMFORT
YKK ZIPPERS
FULL FRONT SIZE POCKETS
LARGE HIDDEN INTERNAL POCKETS
HIDDEN PEN HOLDERS ON CHEST
BACK SAVING CUMBERBUNB SUPPORT SYSTEM
ADJUSTABLE SIDE QUICK RELEASE CLOSURES
FULL FRONT & BACK M.O.L.L.E.
VELCRO PANEL ON UPPER BACK
BUILT-IN SUSPENSION SYSTEM THAT CAN ATTACH TO DUTY BELT
POLICE
MAYHEM
TACTICAL SHIRT
TACTICAL BDU PANT
S.W.A.T. POLICE GLOVE
INTERSPORTO-GROUP, INC. / P.O. BOX 114 TIONA, PA / WWW.INTERSPORT-GROUP.COM
EMAIL: INFO@INTERSPORT-GROUP.COM / Phone) 814-968-3085 / Skype) 828-263-4005

Circle **6080** for More Information

In Search of Intelligent Life

James L. McClinton, Ph.D

SOME UNDERCOVER CARS ARE REALLY HARD TO SPOT...

A Washington State Patrol lieutenant recently pulled over a 28-year-old drunk driver in a logistically impressive arrest. When he spotted the driver, the lieutenant happened to be sitting behind the wheel of the 36 foot long RV converted to the department's mobile unit for processing DUIs. But, that wasn't a problem for the lawman, who nonetheless managed to maneuver the vehicle well enough to pursue and stop the alleged drunk driver. *(Lieutenant: "Your eyes look bloodshot; have you been drinking?" Driver: "Your eyes look glazed; have you been eating donuts?")*

H-m-m-m, I wonder if "selfies" can be used as mug shots?... A 20-year-old woman was arrested in Seattle after calling police to complain that she was being harassed by a man who was following her. After police arrived, their investigation revealed that the "stalker" was simply trying to get his phone back after the woman stole it from him while he was napping on a bus. *(Obviously, someone missed the critical thinking symposium.)*

Doesn't seem like he was "cut out" for a life of crime... While armed with a knife, a man entered the Forge Inn in Woodbridge, New Jersey, and then attempted to rob the clerk. But, things didn't work out for him, so he fled the scene without getting any money. Undaunted, he went to the La Bonbonniere bakery and, again failing in his robbery attempt, settled for a meager $2 he stole from the tip jar. He regrouped the next day and went to the Hess gas station, again armed with a knife. But, like the previous day, he left empty-handed. Finally, he thought he'd give a 7-Eleven® store a try and tried to rob it. He had the same results and ended up leaving empty-handed. But, this time, the police were in the vicinity and were able to apprehend our hopeless criminal. The final tally was: amount stolen – $2; bail – $50,000. *(Wouldn't it have been a lot easier, and financially more productive, to just get a job?)*

Sorry, lady, the fact that your tax dollars help pay police operating expenses doesn't give you the right to use their cars!... Pittsburgh police say a drunken woman tried to drive away in an unmarked police car – with two officers still inside. According to a criminal complaint, the 32-year-old woman got into the car at about 2:15 a.m. outside a nightclub which was hosting a party after a Wiz Khalifa concert. Police say she sat in the driver's seat and told the two plainclothes officers in the back that she intended to drive the vehicle to where her own was parked. Police say she was arrested before she could drive anywhere. The woman is facing a preliminary hearing on charges of robbery of a motor vehicle, disorderly conduct and public drunkenness. *(What I'm not clear on is why the two officers were sitting together in the backseat...)*

If the name fits, you can't acquit!... A Virginia man with the last name Stoner is facing drug charges after police found more than $10,000 worth of marijuana plants at his home. The Orange County Sheriff's Office says the 42-year-old Unionville man is charged with growing marijuana and having a firearm while in possession of more than a pound of marijuana. Further charges are pending. Authorities say they acted on a tip that Stoner was selling to children and, during the search, seized marijuana, drug paraphernalia, prescription drugs, and guns. *(Marijuana was his drug of choice because the ice cubes got stuck in his nose when he tried Coke.)*

While "Return to Sender" wasn't an option here, "Return Sender to Jail" obviously was!... Two brothers were arrested in Jonesboro, Arkansas, and charged with possession of methamphetamine. One of them was able to post bond, but his brother remained jailed with a parole hold. You'd assume that brother #1 would be wise enough to walk a straight and narrow path for a while, right? Wrong. He apparently wasn't aware of the fact that all incoming phone calls are monitored by the detention center when he called his incarcerated brother to tell him that he was going to mail him some meth. The police intercepted the letter and both men who are now occupying jail cells. *(Certifiable idiots should always use "certified" mail when sending drugs to inmates.)*

Sometimes, the thrill of victory can quickly turn into the agony of defeat!... The sweet and jubilant victory for a North Carolina man who beat police officers in a doughnut eating contest soured after a newspaper story about the win led to his arrest on breaking and entering charges. The 24-year-old Elizabeth City man downed eight doughnuts in two minutes during a contest at an anticrime event hosted by the city's police department. That report caught the eye of a Camden County Sheriff's lieutenant who said his detectives had been trying to interview the man for about nine months after suspecting him in break-ins at two local businesses. The deputy said they brought the man in for questioning. "I said, 'Congratulations on your win last night,' " he recalled, before arresting the man on criminal charges of breaking and entering and injury to real property. *(I'd say that pretty much evens up the score – wouldn't you?)*

This is after he forgot his "potato gun" at home... Police in Philadelphia say a man used fruit which he stole from a convenience store counter to simulate a gun while he robbed the place. Police posted a surveillance video of the holdup reported in the East Parkside neighborhood. The footage shows a man entering the corner grocery store where he waited in line and then took a banana from the counter by the cash register. The suspect then put the banana in a front pocket of his hoodie and pointed it toward the cashier. Police say the man demanded money and cigarettes and made off with an undetermined amount of cash – riding off on a bicycle. *(He took his banana and split.)*

New Technology

New AR Rifle from Ruger®

Sturm, Ruger & Company, Inc. recently introduced the **AR-556™** semiautomatic, M4-style, direct impingement Modern Sporting Rifle. It is constructed from forged 7070-T6 aluminum upper and lower receivers and a cold hammer forged chrome-moly steel barrel with M4 feed ramp cuts. Chambered in 5.56 NATO, the **AR-556**'s carbine length, flat top, M4 design is fully configured with a Ruger Rapid Deploy folding rear sight, milled F-height gas block with post front sight, forward assist, dustcover, and brass deflector. Other features include a telescoping six position stock, improved trigger reach grip, enlarged trigger guard and one 30 round Magpul® PMag®.

Circle 6082 for More Information

New 11 High Side Zip Boot

Combining HAIX® innovative know-how with advanced running shoe technology, the **Black Eagle® Athletic 11 High Side Zip** is finally here. Similar to most running shoes, the **HAIX Black Eagle** offers one width which easily adjusts to fit a variety of foot types and it also gives you the convenience of a zipper boot. It is lightweight and extremely slip-resistant.

Circle 6083 for More Information

New Clip-on Thermal Sight

Night Optics USA has introduced the **Panther C** series high performance clip-on thermal sight. The new **Panther C** 336 (336 x 256) and **Panther C** 640 (640 x 480) clip-on thermal sights can be mounted directly to a Picatinny rail or the front bell housing of a daytime riflescope using a Night Optics day/night mount. The **Panther C** is a dual mode system, enabling user selected menu options for onetime clip-on or a fully dedicated weapon sight mode. They feature a precise optical focus adjustment; dual mode operation; 600 x 800 high-resolution AMOLED display; long battery life; video out; and high quality germanium optics for pristine, high contract images.

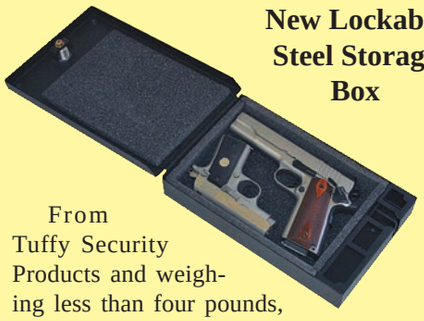
Circle 6084 for More Information

New Tactical BDU Pant

The **Mayhem Tactical BDU Pant**, from Intersport Group, Inc., encompasses utility to give law enforcement the tactical advantage. Made of poly/cotton ripstop fabric with reinforced knees and seat, the pants' multistitch system and heavy-duty thread provide durability over time. The large cargo pockets have an inconspicuous removable pocket system with the option of a gun holster or multitool pocket. The expandable waistband provides superior comfort and freedom of movement. Blousing string keepers make sure there are no more tails. The **Mayhem Tactical Pant** is the go to pant for any call of duty.

Circle 6085 for More Information

New Lockable Steel Storage Box



From Tuffy Security Products and weighing less than four pounds, this **lockable welded steel storage box** can be used to secure and protect firearms when carrying them by hand between locations; during travel; or inside a vehicle, home, or office. Keyless entry is provided by a three digit combination lock with a two-point steel cam for added security. A two foot, steel security cable (included) secures the safe to any sturdy mounting surface by attaching it to the 1/8" steel security cable anchor point. The inside is lined with foam and compression bumpers keep the lid vibration-free when closed.

Circle 6086 for More Information

New S.W.A.T. Police Glove

The **Mayhem S.W.A.T. Police Glove**, from Intersport Group, Inc., defends against the many dangerous tasks of tactical operations. The articulated PVC knuckle protection and leather palm with rubber grip padding are designed to shield the hands and give excellent mobility. The smooth and snug index finger profile allows for easy trigger finger entry, while also having a smaller gauntlet for enhanced firearm carrying wrist movement. The middle finger and thumb have touch screen capabilities, along with a built-in drip cloth on the thumb. All **Mayhem Police Gloves** come standard with a built-in pouch for hot hands to combat cold weather. The winter version includes a Thinsulate® layer in addition to the hot hand pouch. The **Mayhem S.W.A.T. Police Glove** is perfect for the law enforcer on high-risk operations looking for protection and purpose.

Circle 6087 for More Information

Subscription Coupon

Have **POLICE and SECURITY NEWS** delivered to your home or office for ONLY $18.00 for one year (6 issues) or $29.00 for two years (12 issues)!
Outside the USA: 1 year $89.00, 2 years $145.00

Name _____ Title/Position _____

Dept./Agency/Co. _____

Address _____

City _____ State _____ ZIP _____

Phone ( ) _____

E-mail _____

Enclose Your Check or Money Order or Use Your Credit Card.

Return to: **POLICE and SECURITY NEWS**, P.O.Box 330, Kulpsville, PA 19443

Check enclosed ☐ MasterCard ☐ VISA ☐ Amount _____ # of years ____

Credit Card # _____ Exp. Date _____

Signature _____

November/December 2014

Free Information! Nov/Dec 2014

By Mail or Fax Exp. 1/16/15

To receive additional information on our advertisers, new products, or companies featured in articles, circle the appropriate Reader Service Number(s).

6000	6001	6002	6003	6004	6005	6006	6007	6008	6009
6010	6011	6012	6013	6014	6015	6016	6017	6018	6019
6020	6021	6022	6023	6024	6025	6026	6027	6028	6029
6030	6031	6032	6033	6034	6035	6036	6037	6038	6039
6040	6041	6042	6043	6044	6045	6046	6047	6048	6049
6050	6051	6052	6053	6054	6055	6056	6057	6058	6059
6060	6061	6062	6063	6064	6065	6066	6067	6068	6069
6070	6071	6072	6073	6074	6075	6076	6077	6078	6079
6080	6081	6082	6083	6084	6085	6086	6087	6088	6089
6090	6091	6092	6093	6094	6095	6096	6097	6098	6099
6100	6101	6102	6103	6104	6105	6106	6107	6108	6109
6110	6111	6112	6113	6114	6115	6116	6117	6118	6119
6120	6121	6122	6123	6124	6125	6126	6127	6128	6129
6130	6131	6132	6133	6134	6135	6136	6137	6138	6139
6140	6141	6142	6143	6144	6145	6146	6147	6148	6149
6150	6151	6152	6153	6154	6155	6156	6157	6158	6159
6160	6161	6162	6163	6164	6165	6166	6167	6168	6169
6170	6171	6172	6173	6174	6175	6176	6177	6178	6179
6180	6181	6182	6183	6184	6185	6186	6187	6188	6189
6190	6191	6192	6193	6194	6195	6196	6197	6198	6199

Important: Request card must be filled out completely in order to be processed – Please Print

Name _____ Title/Position _____

Dept./Agency/Co. _____

Address _____

City _____ State _____ ZIP _____

Phone ( ) _____

E-mail _____

Fax to 215/538-1208

or mail to: P&SN,1208 Juniper St., Quakertown PA 18951

Advertiser Index

1) Fill out the Free Information Coupon below. Include all pertinent information.

2) Circle the number(s) on the coupon corresponding to the advertisements or new products for which you would like additional information.

3) Mail to: POLICE and SECURITY NEWS, 1208 Juniper St., Quakertown, PA 18951

Circle #	Page	Circle #	Page
6066...Accu-Shot	39	6060...Humane Restraint Co., Inc.	34
6064...Adorama	37	6009...Instant Armor, Inc.	7
6046...Aedec	25	6080...Intersport Group, Inc.	47
6072...Aerko International	42	6057...JAMAR Technologies, Inc.	32
6014...All Traffic Solutions	11	6001...Kel-Tec	3
6058...American Aluminum Access.	33	6044...Lind Electronics, Inc.	24
6035...American Military University	19	6075...Mission First Tactical	44
6027...Arrow Safety Device	15	6043...Morrow Bros. Ford, Inc.	23
6063...Back Defense Systems, LLC	36	6017...N8² Tactical Inc.	12
6029...Black Hills Ammunition	16	6000...Original S.W.A.T.	Cover 2
6002...BLACKHAWK!	5	6011...Pearce Grip, Inc.	9
6010...BrennekeUSA	9	6079...PowerTacLights.com	46
6068...Brownells	40	6040...Setina Mfg. Co., Inc.	20
6015...California University of PA	11	6004...SHOT Show 2015	6
6061...Cellebrite USA, Inc.	35	6062...Smith & Warren	36
6049...Code 3, Inc.	27	6067...Sniper Tools Design Co., LLC	39
6050...Datalux Corp.	28	6073...TSSi	43
6028...DeSantis Gunhide	15	6036...TacView, Inc.	19
6090...FNH USA	Cover 4	6052...Tremco Police Products	29
6053...Farber Specialty Vehicles, Inc.	29	6089...TRU-SPEC by Atlanco	Cover 3
6041...Federal Signal Corp.	22	6048...Tuffy Security Products	26
6071...Fire Hooks Unlimited, Inc.	42	6031...Tufloc	17
6056...Gamber-Johnson, LLC	31	6051...Westin Public Safety Division	29
6055...Harley-Davidson Motor Co.	30	6069...zMAX	40
6042...Havis, Inc.	23		

SALE
25% OFF

TRU-SPEC®

VERSATILE DURABLE PROFESSIONAL TRU-SPEC® 24-7 SERIES® PANTS

GET 25% OFF THESE 24-7 SERIES® PANTS:

- Original Tactical Pants (Men's and Ladies')
- Classic (Men's and Ladies')
- Eclipse
- EMS (Men's and Ladies')
- Boot-Cut Trousers

November 14 – December 31, 2014

*Certain exclusions apply. Participating dealers only. Visit truspec.com to find a participating dealer near you.

24-7 SERIES® PANTS COLLECTION

All day, every day performance... a full line of pants available for on and off duty.

ORIGINAL CLASSIC ECLIPSE EMS BOOT-CUT

TRU-SPEC

800.241.9414 | TRUSPEC.COM

Circle 6089 for More Information

FN 15™ SERIES

PROUDLY MADE IN THE U.S.A.

With 125 years of experience building firearms for the U.S. military and its allies, FN proudly introduces the FN 15™ family of modern sporting rifles. Both the FN 15™ Carbine and FN 15™ Rifle offer shooting enthusiasts the standard features and benefits they expect from an M4 or M16-style firearm, plus the unparalleled reliability and quality synonymous worldwide with the FN brand.

FOR MORE PRODUCT DETAILS, VISIT:
FNHUSA.COM/FN15-SERIES

1889 2014 125 HERSTAL GROUP FN Herstal - Browning

FNH USA

DISTINCT ADVANTAGE™

Circle 6090 for More Information